

TABLE 3 (continued)

Summary of Major Anion Analytical Results for Groundwater Samples Collected from Wattenberg Disposal Facility, Weld County, Colorado

Sample	Date	pH	Temperature (Celsius)	Specific Conductance ¹	Bicarbonate (mg/L)	Carbonate (mg/L)	Nitrate as N ³ (mg/L)	Nitrite as N ³ (mg/L)	Sulfate ³ (mg/L)	Chloride ³ (mg/L)
OW-3	12/16/02	7.08	15.3	>4000	1100	<1	<1.8	<1.7	8400	3800
(Cont.)	6/30/03	7.13	14.6	>4000	NS	NS	2.0J	<2.5	6100	3800
	12/30/03	7.27	13.4	>4000	1200	<1.2	0.24	<0.099	6300	1200
	6/30/04	6.89	12.4	>4000	920	<1.2	0.20	<0.025	5400	4900
	12/29/04	6.65	12.3	>4000	1100	<3.4	<0.07	<0.07	6700	3200
	6/30/05	6.90	12.5	>4000	1100	<1.2	<0.28	<0.25	8000	3800
	12/28/05	7.12	15.2	>4000	1100	<1.2	6.2	11.000	6800	3800
	6/29/06	6.54	13.5	>4000	1100	<1.2	2.7	<0.25	680	4800
	1/25/07	7.47	12.7	>4000	1100	<5.0	<1.4	<1.9	5900	4750
	7/2/07	6.9	13.7	>4000	NA	NA	NA	NA	NA	NA
	1/31/08	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/24/08	NS	NS	NS	NS	NS	NS	NS	NS	NS
	1/05/09	7.05	14.0	>4000	1200	<5.0	4.3	1.900	6100	4390
	6/29/09	7.15	14.1	>4000	919	<5.0	7.4	<6.1	5010	4970
	12/15/09	7.17	13.0	>4000	920	<5.0	6.2	<1.5	4740	5050
	6/23/10	7.35	12.3	>4000	960	<5.0	8.0	<6.1	5960	3920
	12/13/10	7.05	13.2	>4000	960	<5.0	9.5	<15.0	5960	4690
	6/21/11	7.19	12.3	>4000	973	<5.0	4.0	<15.0	5100	3490
	12/21/11	7.20	12.0	>4000	988	<5.0	4.1	<6.1	5620	3650
	6/19/12	7.40	13.3	>4000	959	<5.0	8.8	<2.5	5690	3560
	12/17/12	7.33	13.5	>4000	1030	<5.0	0.57	0.210	5810	3440
	6/13/13	7.20	12.3	>4000	973	<5.0	11.2	1.100	5820	3490
	12/12/13	7.03	13.3	>4000	908	<5.0	0.7	0.090	4550	2770
	6/23/14	7.19	12.4	>4000	919	<5.0	9.6	2.900	4990	2960
	12/9/14	7.07	12.2	>4000	994	<5.0	9.8	<.20	5520	3860
	5/28/15	7.10	12.3	>4000	950	<5.0	0.41	<.80	4250	2560
	11/16/15	7.11	12.4	>4000	885	<5.0	0.95	<2.0	3970	2200
	5/23/16	7.08	12.2	>4000	960	<1.0	7.5	<2.0	2800	2160
	11/15/16	7.11	12.4	>4000	860	<1.0	<2.0	<2.0	4200	2160
OW-4	12/15/09	7.14	12.9	>4000	276	<5.0	89.3	<1.5	6450	4350

TABLE 3 (continued)**Summary of Major Anion Analytical Results for Groundwater Samples Collected from Wattenberg Disposal Facility, Weld County, Colorado**

Sample	Date	pH	Temperature (Celsius)	Specific Conductance ¹	Bicarbonate (mg/L)	Carbonate (mg/L)	Nitrate as N ³ (mg/L)	Nitrite as N ³ (mg/L)	Sulfate ³ (mg/L)	Chloride ³ (mg/L)
OW-4	6/23/10	7.17	13.5	>4000	257	<5.0	80.2	<6.1	6650	3580
(Cont.)	12/13/10	7.18	13.1	>4000	300	<5.0	69.1	<15.0	7880	3840
	6/21/11	7.23	12.2	>4000	262	<5.0	71.0	<15.0	6880	3690
	12/21/11	7.12	11.7	>4000	322	<5.0	69.9	<6.1	7210	3430
	6/19/12	7.41	14.0	>4000	261	<5.0	87.5	<2.5	6990	3920
	12/17/12	7.33	12.7	>4000	262	<5.0	78.7	<0.08	7390	3780
	6/13/13	7.25	12.3	>4000	248	<5.0	97.0	<0.8	6980	4120
	12/12/13	7.29	12.9	>4000	348	<5.0	49.3	<0.08	7560	2810
	6/23/14	7.21	12.4	>4000	284	<5.0	75.4	<0.20	6920	3270
	12/9/14	7.28	12.4	>4000	306	<5.0	71.3	1.100	7410	3250
	5/28/15	7.28	12.3	>4000	1180	<5.0	2.0	<.40	2070	1000
	11/16/15	7.29	12.3	>4000	844	<5.0	18.6	0.370	5530	1730
	5/23/16	7.27	12.4	>4000	600	<1.0	30.0	<2.0	5700	2040
	11/15/16	7.10	12.8	>4000	760	<1.0	12.0	<2.0	4500	1800

1 Specific conductance in micro-siemens at 25 degrees Celsius.

2 By Method 310.1.

3 By Method 300.

J Analyte was detected above the Reporting Limit but below the Quantitation Limit.

mg/L milligrams per liter.

NS No sample.

ATTACHMENT I

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

June 12, 2017

Susana Lara-Mesa
K.P. Kauffman Company, Inc
1675 Broadway, Suite 2800
Denver, CO 80202-4628
RE: Wattenberg Groundwater

Enclosed are the results of analyses for samples received by Summit Scientific on 05/30/17 14:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury
Laboratory Manager

S₂

K.P. Kauffman Company, Inc
1675 Broadway, Suite 2800
Denver CO, 80202-4628

Project: Wattenberg Groundwater
Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
06/12/17 10:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
OW-1	1705281-01	Water	05/30/17 08:00	05/30/17 14:00
OW-2	1705281-02	Water	05/30/17 10:05	05/30/17 14:00
OW-3	1705281-03	Water	05/30/17 09:00	05/30/17 14:00
OW-4	1705281-04	Water	05/30/17 11:10	05/30/17 14:00

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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K.P. Kauffman Company, Inc
1675 Broadway, Suite 2800
Denver CO, 80202-4628

Project: Wattenberg Groundwater
Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
06/12/17 10:11

Summit Scientific

S₂

1705281

741 Corporate Circle, Suite J ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-374-5933

Page 1 of 1

Client: K.P. Kauffman Company, Inc. Project Manager: Susana Lara-Mesa
Address: 1675 Broadway, Suite 2800 E-Mail: slaramesa@kpk.com
City/State/Zip: Denver, CO 80202
Phone: 303-825-4922 Fax: _____ Project Name: Wattenberg Groundwater
Sampler Name: Mike Hettler Project Number: _____

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested										Special Instructions
					HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)	NOV	NOV	NOV	NOV	NOV	NOV	NOV	NOV	NOV	NOV	
1	OW-1	5/10/17	0800	7	X				X	X				X	X	X	X	X	X	X	X		
2	OW-2		1005	7	X				X	X				X	X	X	X	X	X	X	X		
3	OW-3		0900	7	X				X	X				X	X	X	X	X	X	X	X		
4	OW-4	✓	1110	7	X				X	X				X	X	X	X	X	X	X	X		
5																							
6																							
7																							
8																							
9																							
10																						on ice	

Relinquished by: <u>Mike Hettler</u> Date/Time: <u>5/10/17 14:00</u>	Received by: <u>530-17</u> Date/Time: <u>14:00</u>	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 hours 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/>	Notes: Full QACOC Package Copy of report to Susana & Mike Hettler mhattel@kpk.com
Relinquished by: <u>530-17</u> Date/Time: <u>18:00</u>	Received by: _____ Date/Time: _____	Sample Integrity: Temperature Upon Receipt: <u>10.5</u>	
Relinquished by: _____ Date/Time: _____	Received by: _____ Date/Time: _____	Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	

www.s2scientific.com

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

S2

K.P. Kauffman Company, Inc
1675 Broadway, Suite 2800
Denver CO, 80202-4628

Project: Wattenberg Groundwater

Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
06/12/17 10:11

Sample Receipt Checklist

S2 Work Order: 1705281

Client: K.P. Kauffman

Client Project ID: Wattenberg Groundwater

Shipped Via: H.D. Snice

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: _____

Matrix (check all that apply):

☐ Air

☐ Soil/Solid

☒ Water

☐ Other: _____

(Describe)

Cooler ID					
Temp (°C)	10.5				

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature just above 0°C to ≤ 6°C ⁽¹⁾ ?				
NOTE: If samples are delivered the same day of sampling, this requirement is waived provided that there is evidence that cooling has begun.	X			on ice
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
If custody seals are present, are they intact ⁽¹⁾ ?			X	
Are short holding time analytes or samples with HTs due within 48 hours present?			X	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.		X		
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?	X			HCL H2SO4
Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect			X	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ?			X	
Record the pH in Comments.			X	
If dissolved metals are requested, were samples field filtered?			X	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

Muri P.
Custodian Printed Name

MA 5-30-17
Signature or Initials of Custodian

14:30
Date/Time

S₂

K.P. Kauffman Company, Inc
1675 Broadway, Suite 2800
Denver CO, 80202-4628

Project: Wattenberg Groundwater
Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
06/12/17 10:11

OW-1
1705281-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/30/17 08:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1705307	06/03/17	06/03/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **05/30/17 08:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		99.9 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	45-146		"	"	"	"	

Total Metals by EPA Method 200.8

Date Sampled: **05/30/17 08:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	143	0.0500	mg/L	1	1705303	05/31/17	05/31/17	EPA 200.8	
Magnesium	149	0.0500	"	"	"	"	"	"	
Potassium	6.57	0.0500	"	"	"	"	"	"	
Sodium	1370	0.0500	"	"	"	"	"	"	

Oil and Grease by EPA 1664A (Aqueous)

Date Sampled: **05/30/17 08:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Oil & Grease (HEM)	16.6	5.00	mg/L	1	1706007	06/01/17	06/05/17	EPA 1664A	

Conventional Chemistry Parameters by APHA/EPA Methods

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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K.P. Kauffman Company, Inc
1675 Broadway, Suite 2800
Denver CO, 80202-4628

Project: Wattenberg Groundwater
Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
06/12/17 10:11

OW-1
1705281-01 (Water)

Summit Scientific

Conventional Chemistry Parameters by APHA/EPA Methods

Date Sampled: **05/30/17 08:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	900	5.00	mg/L as CaCO ₃	1	1706020	06/02/17	06/05/17	SM2320-B	
Hydroxide Alkalinity	ND	5.00	"	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	"	
Bicarbonate Alkalinity	900	5.00	"	"	"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **05/30/17 08:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nitrate + Nitrite as N	ND	0.820	mg/L	1	[CALC]	05/31/17	05/31/17	Calculation	
Chloride	460	100	"	100	1705312	"	06/08/17	EPA 300.0	
Nitrite as N	ND	0.0200	"	1	"	"	05/31/17	"	
Sulfate	1020	100	"	100	"	"	06/08/17	"	
Nitrate as N	ND	0.800	"	1	"	"	05/31/17	"	

Total Dissolved Solids by 160.1

Date Sampled: **05/30/17 08:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	5750	8.00	mg/L	1	1706050	06/05/17	06/05/17	EPA 160.1	

Summit Scientific

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K.P. Kauffman Company, Inc
1675 Broadway, Suite 2800
Denver CO, 80202-4628

Project: Wattenberg Groundwater
Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
06/12/17 10:11

OW-2
1705281-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/30/17 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1705307	06/03/17	06/03/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **05/30/17 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		109 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		101 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.0 %	45-146		"	"	"	"	

Total Metals by EPA Method 200.8

Date Sampled: **05/30/17 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	502	0.0500	mg/L	1	1705303	05/31/17	05/31/17	EPA 200.8	
Magnesium	561	0.0500	"	"	"	"	"	"	
Potassium	13.6	0.0500	"	"	"	"	"	"	
Sodium	3550	0.0500	"	"	"	"	"	"	

Oil and Grease by EPA 1664A (Aqueous)

Date Sampled: **05/30/17 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Oil & Grease (HEM)	16.2	5.00	mg/L	1	1706007	06/01/17	06/05/17	EPA 1664A	

Conventional Chemistry Parameters by APHA/EPA Methods

Summit Scientific

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K.P. Kauffman Company, Inc
1675 Broadway, Suite 2800
Denver CO, 80202-4628

Project: Wattenberg Groundwater
Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
06/12/17 10:11

OW-2
1705281-02 (Water)

Summit Scientific

Conventional Chemistry Parameters by APHA/EPA Methods

Date Sampled: **05/30/17 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	1150	5.00	mg/L as CaCO ₃	1	1706020	06/02/17	06/05/17	SM2320-B	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	5.00	"	"	"	"	"	"	
Bicarbonate Alkalinity	1150	5.00	"	"	"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **05/30/17 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nitrate + Nitrite as N	ND	0.820	mg/L	1	[CALC]	05/31/17	05/31/17	Calculation	
Sulfate	2840	100	"	100	1705312	"	06/08/17	EPA 300.0	
Nitrite as N	ND	0.0200	"	1	"	"	05/31/17	"	
Chloride	1730	100	"	100	"	"	06/08/17	"	
Nitrate as N	ND	0.800	"	1	"	"	05/31/17	"	

Total Dissolved Solids by 160.1

Date Sampled: **05/30/17 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	17100	8.00	mg/L	1	1706050	06/05/17	06/05/17	EPA 160.1	

Summit Scientific

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K.P. Kauffman Company, Inc
1675 Broadway, Suite 2800
Denver CO, 80202-4628

Project: Wattenberg Groundwater
Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
06/12/17 10:11

OW-3
1705281-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/30/17 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1705307	06/03/17	06/03/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **05/30/17 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		95.5 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.7 %	45-146		"	"	"	"	

Total Metals by EPA Method 200.8

Date Sampled: **05/30/17 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	358	0.0500	mg/L	1	1705303	05/31/17	05/31/17	EPA 200.8	
Magnesium	426	0.0500	"	"	"	"	"	"	
Potassium	14.4	0.0500	"	"	"	"	"	"	
Sodium	3260	0.0500	"	"	"	"	"	"	

Oil and Grease by EPA 1664A (Aqueous)

Date Sampled: **05/30/17 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Oil & Grease (HEM)	14.2	5.00	mg/L	1	1706007	06/01/17	06/05/17	EPA 1664A	

Conventional Chemistry Parameters by APHA/EPA Methods

Summit Scientific

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S₂

K.P. Kauffman Company, Inc
1675 Broadway, Suite 2800
Denver CO, 80202-4628

Project: Wattenberg Groundwater
Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
06/12/17 10:11

OW-3
1705281-03 (Water)

Summit Scientific

Conventional Chemistry Parameters by APHA/EPA Methods

Date Sampled: **05/30/17 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	1060	5.00	mg/L as CaCO ₃	1	1706020	06/02/17	06/05/17	SM2320-B	
Hydroxide Alkalinity	ND	5.00	"	"	"	"	"	"	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	"	
Bicarbonate Alkalinity	1060	5.00	"	"	"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **05/30/17 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nitrate + Nitrite as N	ND	0.820	mg/L	1	[CALC]	05/31/17	05/31/17	Calculation	
Chloride	821	100	"	100	1705312	"	06/08/17	EPA 300.0	
Nitrite as N	ND	0.0200	"	1	"	"	05/31/17	"	
Sulfate	1630	100	"	100	"	"	06/08/17	"	
Nitrate as N	ND	0.800	"	1	"	"	05/31/17	"	

Total Dissolved Solids by 160.1

Date Sampled: **05/30/17 09:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	15500	8.00	mg/L	1	1706050	06/05/17	06/05/17	EPA 160.1	

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

S₂

K.P. Kauffman Company, Inc
1675 Broadway, Suite 2800
Denver CO, 80202-4628

Project: Wattenberg Groundwater
Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
06/12/17 10:11

OW-4
1705281-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/30/17 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	1705307	06/03/17	06/03/17	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **05/30/17 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	37-154		"	"	"	"	
Surrogate: Toluene-d8		103 %	45-149		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.8 %	45-146		"	"	"	"	

Total Metals by EPA Method 200.8

Date Sampled: **05/30/17 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	326	0.0500	mg/L	1	1705303	05/31/17	05/31/17	EPA 200.8	
Magnesium	345	0.0500	"	"	"	"	"	"	
Potassium	12.8	0.0500	"	"	"	"	"	"	
Sodium	3060	0.0500	"	"	"	"	"	"	

Oil and Grease by EPA 1664A (Aqueous)

Date Sampled: **05/30/17 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Oil & Grease (HEM)	15.4	5.00	mg/L	1	1706007	06/01/17	06/05/17	EPA 1664A	

Conventional Chemistry Parameters by APHA/EPA Methods

Summit Scientific

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S₂

K.P. Kauffman Company, Inc
1675 Broadway, Suite 2800
Denver CO, 80202-4628

Project: Wattenberg Groundwater
Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
06/12/17 10:11

OW-4
1705281-04 (Water)

Summit Scientific

Conventional Chemistry Parameters by APHA/EPA Methods

Date Sampled: **05/30/17 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	720	5.00	mg/L as CaCO ₃	1	1706020	06/02/17	06/05/17	SM2320-B	
Carbonate Alkalinity	ND	5.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	5.00	"	"	"	"	"	"	
Bicarbonate Alkalinity	720	5.00	"	"	"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **05/30/17 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nitrate + Nitrite as N	ND	0.820	mg/L	1	[CALC]	05/31/17	05/31/17	Calculation	
Chloride	827	100	"	100	1705312	"	06/08/17	EPA 300.0	
Sulfate	2670	100	"	"	"	"	"	"	
Nitrite as N	ND	0.0200	"	1	"	"	05/31/17	"	
Nitrate as N	ND	0.800	"	"	"	"	"	"	

Total Dissolved Solids by 160.1

Date Sampled: **05/30/17 11:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	13000	8.00	mg/L	1	1706050	06/05/17	06/05/17	EPA 160.1	

Summit Scientific

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S₂

K.P. Kauffman Company, Inc
1675 Broadway, Suite 2800
Denver CO, 80202-4628

Project: Wattenberg Groundwater
Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
06/12/17 10:11

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1705307 - EPA 5030 Water MS

Blank (1705307-BLK1)

Prepared & Analyzed: 06/01/17

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	14.5		"	13.3		109	37-154			
Surrogate: Toluene-d8	13.4		"	13.3		100	45-149			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.5	45-146			

LCS (1705307-BS1)

Prepared & Analyzed: 06/01/17

Benzene	31.0	1.0	ug/l	33.3		92.9	51-132			
Toluene	34.0	1.0	"	33.3		102	51-138			
Ethylbenzene	38.6	1.0	"	33.1		117	58-146			
m,p-Xylene	74.2	2.0	"	66.5		112	57-144			
o-Xylene	34.9	1.0	"	32.7		107	53-146			
Surrogate: 1,2-Dichloroethane-d4	14.0		"	13.3		105	37-154			
Surrogate: Toluene-d8	13.2		"	13.3		99.4	45-149			
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3		102	45-146			

Matrix Spike (1705307-MS1)

Source: 1705283-01

Prepared & Analyzed: 06/01/17

Benzene	32.0	1.0	ug/l	33.3	ND	96.1	34-141			
Toluene	35.1	1.0	"	33.3	ND	105	27-151			
Ethylbenzene	39.6	1.0	"	33.1	ND	120	29-160			
m,p-Xylene	77.5	2.0	"	66.5	ND	117	20-166			
o-Xylene	36.5	1.0	"	32.7	ND	112	33-159			
Surrogate: 1,2-Dichloroethane-d4	14.4		"	13.3		108	37-154			
Surrogate: Toluene-d8	13.4		"	13.3		100	45-149			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.3	45-146			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 12 of 19

S₂

K.P. Kauffman Company, Inc
1675 Broadway, Suite 2800
Denver CO, 80202-4628

Project: Wattenberg Groundwater

Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
06/12/17 10:11

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1705307 - EPA 5030 Water MS

Matrix Spike Dup (1705307-MSD1)			Source: 1705283-01		Prepared & Analyzed: 06/01/17					
Benzene	31.1	1.0	ug/l	33.3	ND	93.4	34-141	2.85	32	
Toluene	30.5	1.0	"	33.3	ND	91.5	27-151	14.1	25	
Ethylbenzene	36.9	1.0	"	33.1	ND	112	29-160	7.06	50	
m,p-Xylene	71.2	2.0	"	66.5	ND	107	20-166	8.46	36	
o-Xylene	34.0	1.0	"	32.7	ND	104	33-159	7.12	26	
Surrogate: 1,2-Dichloroethane-d4	15.4		"	13.3		115	37-154			
Surrogate: Toluene-d8	12.2		"	13.3		91.4	45-149			
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.8	45-146			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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K.P. Kauffman Company, Inc
1675 Broadway, Suite 2800
Denver CO, 80202-4628

Project: Wattenberg Groundwater
Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
06/12/17 10:11

Total Metals by EPA Method 200.8 - Quality Control

Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1705303 - EPA 200.8

Blank (1705303-BLK1)

Prepared & Analyzed: 05/31/17

Calcium	ND	0.0500	mg/L
Magnesium	ND	0.0500	"
Potassium	ND	0.0500	"
Sodium	ND	0.0500	"

LCS (1705303-BS1)

Prepared & Analyzed: 05/31/17

Calcium	4.65	0.0500	mg/L	5.00	93.0	85-115
Magnesium	4.33	0.0500	"	5.00	86.6	85-115
Potassium	4.33	0.0500	"	5.00	86.6	85-115
Sodium	4.42	0.0500	"	5.00	88.5	85-115

Duplicate (1705303-DUP1)

Source: 1705254-01

Prepared & Analyzed: 05/31/17

Calcium	136	0.0500	mg/L	137	1.24	20
Magnesium	19.8	0.0500	"	19.9	0.693	20
Potassium	1.47	0.0500	"	1.48	0.900	20
Sodium	189	0.0500	"	190	0.576	20

Matrix Spike (1705303-MS1)

Source: 1705254-01

Prepared & Analyzed: 05/31/17

Calcium	142	0.0500	mg/L	5.00	137	87.4	75-125
Magnesium	23.8	0.0500	"	5.00	19.9	78.1	75-125
Potassium	5.61	0.0500	"	5.00	1.48	82.7	75-125
Sodium	194	0.0500	"	5.00	190	83.8	75-125

Matrix Spike Dup (1705303-MSD1)

Source: 1705254-01

Prepared & Analyzed: 05/31/17

Calcium	142	0.0500	mg/L	5.00	137	90.8	75-125	0.119	25
Magnesium	23.9	0.0500	"	5.00	19.9	80.1	75-125	0.430	25
Potassium	5.52	0.0500	"	5.00	1.48	80.8	75-125	1.68	25
Sodium	194	0.0500	"	5.00	190	88.5	75-125	0.122	25

Summit Scientific

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K.P. Kauffman Company, Inc
1675 Broadway, Suite 2800
Denver CO, 80202-4628

Project: Wattenberg Groundwater

Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
06/12/17 10:11

Oil and Grease by EPA 1664A (Aqueous) - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1706007 - General Preparation

Blank (1706007-BLK1)

Prepared: 06/01/17 Analyzed: 06/05/17

Oil & Grease (HEM) ND 5.00 mg/L

LCS (1706007-BS1)

Prepared: 06/01/17 Analyzed: 06/05/17

Oil & Grease (HEM) 42.4 5.00 mg/L 40.0 106 82.2-110

Matrix Spike (1706007-MS1)

Source: 1705301-01

Prepared: 06/01/17 Analyzed: 06/05/17

Oil & Grease (HEM) 82.2 5.00 mg/L 40.0 42.6 99.0 80-110

Matrix Spike Dup (1706007-MSD1)

Source: 1705301-01

Prepared: 06/01/17 Analyzed: 06/05/17

Oil & Grease (HEM) 84.2 5.00 mg/L 40.0 42.6 104 80-110 2.40 20

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

S₂

K.P. Kauffman Company, Inc
1675 Broadway, Suite 2800
Denver CO, 80202-4628

Project: Wattenberg Groundwater
Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
06/12/17 10:11

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1706020 - General Preparation

Blank (1706020-BLK1)

Prepared: 06/02/17 Analyzed: 06/05/17

Total Alkalinity	ND	5.00	mg/L as CaCO ₃
Carbonate Alkalinity	ND	5.00	"
Hydroxide Alkalinity	ND	5.00	"
Bicarbonate Alkalinity	ND	5.00	"

LCS (1706020-BS1)

Prepared: 06/02/17 Analyzed: 06/05/17

Total Alkalinity	94.0	5.00	mg/L as CaCO ₃	100	94.0	80-120
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Duplicate (1706020-DUP1)

Source: 1705281-01

Prepared: 06/02/17 Analyzed: 06/05/17

Total Alkalinity	940	5.00	mg/L as CaCO ₃	900	4.35	20
Carbonate Alkalinity	ND	5.00	"	ND		200
Hydroxide Alkalinity	ND	5.00	"	ND		200
Bicarbonate Alkalinity	940	5.00	"	900	4.35	200

Matrix Spike (1706020-MS1)

Source: 1705281-01

Prepared: 06/02/17 Analyzed: 06/05/17

Total Alkalinity	1010	5.00	mg/L as CaCO ₃	100	900	110	80-120
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Matrix Spike Dup (1706020-MSD1)

Source: 1705281-01

Prepared: 06/02/17 Analyzed: 06/05/17

Total Alkalinity	1020	5.00	mg/L as CaCO ₃	100	900	120	80-120	0.985	20
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S₂

K.P. Kauffman Company, Inc
1675 Broadway, Suite 2800
Denver CO, 80202-4628

Project: Wattenberg Groundwater
Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
06/12/17 10:11

Anions by EPA Method 300.0 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1705312 - General Preparation

Blank (1705312-BLK1)

Prepared & Analyzed: 05/31/17

Chloride	ND	1.00	mg/L
Sulfate	ND	1.00	"
Nitrite as N	ND	0.0200	"
Nitrate as N	ND	0.800	"

LCS (1705312-BS1)

Prepared & Analyzed: 05/31/17

Nitrite as N	3.13	0.0200	mg/L	3.00	104	90-110
Chloride	3.08	1.00	"	3.00	103	90-110
Sulfate	15.0	1.00	"	15.0	100	90-110
Nitrate as N	3.00	0.800	"	3.00	100	90-110

Duplicate (1705312-DUP1)

Source: 1705281-01

Prepared & Analyzed: 05/31/17

Sulfate	1040	100	mg/L	1020	2.83	20
Nitrite as N	ND	0.0200	"	ND		10
Chloride	490	100	"	460	6.30	20
Nitrate as N	ND	0.800	"	ND		20

Matrix Spike (1705312-MS1)

Source: 1705281-01

Prepared & Analyzed: 05/31/17

Chloride	421	1.00	mg/L	3.00	460	NR	90-110	QM-02
Nitrite as N	2.98	0.0200	"	3.00	ND	99.5	90-110	
Sulfate	1010	1.00	"	15.0	1020	NR	90-110	QM-02
Nitrate as N	3.02	0.800	"	3.00	ND	101	90-110	

Summit Scientific

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S₂

K.P. Kauffman Company, Inc
1675 Broadway, Suite 2800
Denver CO, 80202-4628

Project: Wattenberg Groundwater
Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
06/12/17 10:11

Total Dissolved Solids by 160.1 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1706050 - General Preparation

Blank (1706050-BLK1)

Prepared: 06/05/17 Analyzed: 06/06/17

Total Dissolved Solids ND 8.00 mg/L

Duplicate (1706050-DUP1)

Source: 1705281-01

Prepared: 06/05/17 Analyzed: 06/06/17

Total Dissolved Solids 5890 8.00 mg/L 5750 2.42 20

Summit Scientific



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Analytical Results

TASK NO: 170531046

Report To: Paul Shrewsbury

Company: Summit Scientific
741 Corporate Circle, Suite J
Golden CO 80401

Bill To: Accounts Payable

Company: Summit Scientific
741 Corporate Circle, Suite J
Golden CO 80401

Task No.: 170531046

Client PO:

Client Project: 1705281

Date Received: 5/31/17

Date Reported: 6/9/17

Matrix: Water - Ground

Customer Sample ID OW-1

Sample Date/Time: 5/30/17 8:00 AM

Lab Number: 170531046-01

Test	Result	Method	ML	Date Analyzed	Analyzed By
Total Organic Carbon	117.7 mg/L	SM 5310-B	1.0 mg/L	6/9/17	VDB

Abbreviations/ References:

ML = Minimum Level = LRL = RL

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed



DATA APPROVED FOR RELEASE BY

Analytical Results

TASK NO: 170531046

Report To: Paul Shrewsbury
Company: Summit Scientific
741 Corporate Circle, Suite J
Golden CO 80401

Bill To: Accounts Payable
Company: Summit Scientific
741 Corporate Circle, Suite J
Golden CO 80401

Task No.: 170531046
Client PO:
Client Project: 1705281

Date Received: 5/31/17
Date Reported: 6/9/17
Matrix: Water - Ground

Customer Sample ID OW-2

Sample Date/Time: 5/30/17 10:05 AM

Lab Number: 170531046-02

Test	Result	Method	ML	Date Analyzed	Analyzed By
Total Organic Carbon	1548.0 mg/L	SM 5310-B	1.0 mg/L	6/5/17	VDB

Abbreviations/ References:

ML = Minimum Level = LRL = RL
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed



DATA APPROVED FOR RELEASE BY

Analytical Results

TASK NO: 170531046

Report To: Paul Shrewsbury
Company: Summit Scientific
741 Corporate Circle, Suite J
Golden CO 80401

Bill To: Accounts Payable
Company: Summit Scientific
741 Corporate Circle, Suite J
Golden CO 80401

Task No.: 170531046
Client PO:
Client Project: 1705281

Date Received: 5/31/17
Date Reported: 6/9/17
Matrix: Water - Ground

Customer Sample ID OW-3
Sample Date/Time: 5/30/17 9:00 AM
Lab Number: 170531046-03

Test	Result	Method	ML	Date Analyzed	Analyzed By
Total Organic Carbon	76.4 mg/L	SM 5310-B	1.0 mg/L	6/5/17	VDB

Abbreviations/ References:

ML = Minimum Level = LRL = RL
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed



DATA APPROVED FOR RELEASE BY

Analytical Results

TASK NO: 170531046

Report To: Paul Shrewsbury

Company: Summit Scientific
741 Corporate Circle, Suite J
Golden CO 80401

Bill To: Accounts Payable

Company: Summit Scientific
741 Corporate Circle, Suite J
Golden CO 80401

Task No.: 170531046

Client PO:

Client Project: 1705281

Date Received: 5/31/17

Date Reported: 6/9/17

Matrix: Water - Ground

Customer Sample ID OW-4

Sample Date/Time: 5/30/17 11:10 AM

Lab Number: 170531046-04

Test	Result	Method	ML	Date Analyzed	Analyzed By
Total Organic Carbon	65.0 mg/L	SM 5310-B	1.0 mg/L	6/5/17	VDB

Abbreviations/ References:

ML = Minimum Level = LRL = RL

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed



DATA APPROVED FOR RELEASE BY



Detailed Analytical QC Summary

TASK NO: 170531046

Report To: Paul Shrewsbury
Summit Scientific

Receive Date: 5/31/17
Collector:

Project Name: 1705281

Test	QC Type	QC Batch	Result			Method	
Total Organic Carbon	Blank	QC28065	<1.0 mg/L			SM 5310-B	
Test	QC Type	QC Batch	LCL	UCL	% Rec	RPD	Method
Total Organic Carbon	Duplicate	QC28065	0	20		8.7	SM 5310-B
	LCS		90	110	99.8		

Approved:  Date: 6/9/17

(d) RPD acceptable due to low duplicate and sample concentrations.
(s) Spike amount low relative to the sample amount.

Chain of Custody Form

Report To Information		Bill To Information (If different from report to)		Project Name
Company Name: <u>Summit Scientific</u>		Company Name: <u>Same</u>		<u>1705281</u>
Contact Name: <u>Paul Shrewsbury</u>		Contact Name: _____		_____
Address: <u>741 Corporate Circle</u>		Address: <u>Same</u>		Task Number (Lab Use Only) CAL Task No. 170531046 EMN
<u>Suite J</u>		_____		
City <u>Golden</u>	State <u>CO</u>	Zip <u>80401</u>		
Phone: 303-277-9310		Phone:		Disposal Date (Lab Use Only)
Fax: 303-374-5933		Fax:		
Email: <u>pshrewsbury@s2scientific.com</u>		Email:		
Sample Collector:		PO No.:		



Brighton Lab
240 South Main Street
Brighton, CO 80601
Lakewood Lab
12860 W. Cedar Dr, Suite 100A
Lakewood CO 80228

Phone: 303-659-2313
Fax: 303-659-2315

www.coloradolab.com

[illegible]

S₂

K.P. Kauffman Company, Inc
1675 Broadway, Suite 2800
Denver CO, 80202-4628

Project: Wattenberg Groundwater
Project Number: [none]
Project Manager: Susana Lara-Mesa

Reported:
06/12/17 10:11

Notes and Definitions

QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

08/04/2017 07:46

Serial No. A2X1018000405

TC: 615962

Job	3799
Sender	khinaman
Title	Microsoft Word - WY5680237.17.field.docx
Interface	Network
Language	PCLXL
Date	7:46:04 AUG 4 2017

2017 EPA Region 8 WY SANITARY SURVEY FORM INVENTORY

DATE OF SURVEY: _____		COUNTY: <u>Park</u>		SURVEYOR NAME: _____	
PWS ID: <u>WY5680237</u>		SYSTEM NAME: <u>SNF - Beartooth Lake CG</u>			
System representatives (including titles) present at survey: _____ Others present: _____ Comments: _____			EMERGENCY CONTACT Emergency Contact Name: _____ Emergency cell phone: (____) _____ Emergency email address: _____ Title: _____ Street: _____ City: _____ State: _____ County: _____ Zip: _____		
SYSTEM OWNER OR MUNICIPAL LEGAL REPRESENTATIVE Addressee Name: _____ Title: _____ Company (if Corporation, name of Corporation): _____ Street: _____ City: _____ State: _____ Zip: _____ Owner Phone: (____) _____ Fax: (____) _____ Email Address: _____			PRIMARY ADMINISTRATIVE CONTACT (to receive ALL correspondence from EPA) Addressee: _____ Title: _____ Street: _____ City: _____ State: _____ County: _____ Zip: _____ Administrative Contact Phone: (____) _____ Fax: (____) _____ Email Address: _____		
ADDITIONAL CONTACT (if any) Addressee: _____ Title: _____ Street: _____ City: _____ State: _____ County: _____ Zip: _____ Contact Phone: (____) _____ Fax: (____) _____ Email Address: _____ Comments: _____			PUBLIC WORKS DIRECTOR, CITY ENGINEER and/or WATER PLANT SUPERINTENDENT Addressee: _____ Title: _____ Street: _____ City: _____ State: _____ County: _____ Zip: _____ Contact Phone: (____) _____ Fax: (____) _____ Email Address: _____		
DESIGNATED OPERATOR OF SYSTEM Name: _____ Certified Operator? @ <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> TNC System (not required) Treatment Cert. Level: _____ Distribution Cert. Level: _____ Treatment Cert. Exp. Date: _____ Distribution Cert. Exp. Date: _____ Cert. Authority: _____ Cert. Authority: _____ Phone: (____) _____ Email Address: _____ Contract Operator*? <input type="checkbox"/> Yes <input type="checkbox"/> No Date contract ends: _____ Comments: _____ Go to: http://deq.wyoming.gov/wqd/operator-certification/ Click on: Check Facility Records then Click on: Check Operator Records			ALTERNATE OPERATOR Name: _____ Certified Operator? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not required Treatment Cert. Level: _____ Distribution Cert. Level: _____ Treatment Cert. Exp. Date: _____ Distribution Cert. Exp. Date: _____ Cert. Authority: _____ Cert. Authority: _____ Phone: (____) _____ Email Address: _____ Comments: _____ Go to: http://deq.wyoming.gov/wqd/operator-certification/ Click on: Check Facility Records then Click on: Check Operator Records		
WATER SYSTEM CLASSIFICATION for operator certification System Treatment Classification Level: _____ System Distribution Classification Level: _____ Comments: _____ Go to: http://deq.wyoming.gov/wqd/operator-certification/ Click on: Check Facility Records			WATER SYSTEM CLASSIFICATION from PWS Inventory <input type="checkbox"/> C = Community <input type="checkbox"/> NTNC = Non-Transient Non-Community <input checked="" type="checkbox"/> NC = Transient Non-Community Comments: _____		
SYSTEM PHYSICAL ADDRESS Street: _____ City: _____ State: _____ Zip: _____			PHYSICAL LOCATION Physical Location and Directions: _____		

<p align="center">DEQ DISTRICT ENGINEER</p> <p><u>James Brough, P.E., District Engineer</u></p> <p>Phone: (307)-335-6961</p> <p>Email: <u>James.Brough@wyo.gov</u></p>	<p align="center">COUNTY AND/OR CHS SANITARIAN</p> <p><u>Michelle Schwope, CHS Specialist</u></p> <p>Phone: (307)-548-2154</p> <p>Email: <u>chelle.schwope@wyo.gov</u></p>																																
<p align="center">PERIOD OF OPERATION</p> <p><input type="checkbox"/> Year-round</p> <p><input checked="" type="checkbox"/> Part of the year: From <u>7/1</u> to <u>9/30</u></p> <p>If only open part of the year, does the entire distribution system remain pressurized during the entire off period? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Comments: <u>website says 7/1 to 9/12</u></p>	<p align="center">SERVICE CONNECTIONS</p> <p>Total Service Connections (Active and Inactive): <u>2</u></p> <p>Service Connections Metered? <input type="checkbox"/> Yes <input type="checkbox"/> No _____</p> <p>Number of metered service connections: _____</p> <p>Comments: _____</p>																																
<p align="center">OWNER TYPE</p> <p><input checked="" type="checkbox"/> 1 Federal Government</p> <p><input type="checkbox"/> 2 Private: Subdivision, Investor, Trust, Cooperative, Water Association, etc.</p> <p>Is this PWS operating with a lease on Federal land? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If Yes, enter name of the Federal land here: _____</p> <p><input type="checkbox"/> 3 State Government</p> <p><input type="checkbox"/> 4 Local Government Authority: Commission, District, Municipality, City, etc.</p> <p><input type="checkbox"/> 5 Mixed Public/Private</p> <p><input type="checkbox"/> 6 Native American Indian Tribes & Reservations _____</p> <p><input type="checkbox"/> 7 Other _____</p> <p>Comments: _____</p>	<p align="center">POPULATION DIRECTLY SERVED (do not include populations of consecutive PWSs) (do not double count populations)</p> <p>Residential Population (year-round residents): <u>0</u> (people)</p> <p>Non-Residential Non-Transient Population: <u>0</u> (people) (6-12 months/year, e.g. students, employees)</p> <p>Transient Population (less than 6 months/year): <u>80</u> (people per day) (Average daily number during peak 60 days of operation) (e.g. customers, visitors)</p> <p>Does the water system serve at least 25 individuals daily at least 60 days of the year (does not need to be consecutive days)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Comments (source(s) of population info): _____</p>																																
<p align="center">SERVICE CATEGORY (check all that apply)</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> AP Airport</td> <td><input type="checkbox"/> PC Picnic Area</td> </tr> <tr> <td><input type="checkbox"/> BA Bathing/Swimming</td> <td><input type="checkbox"/> RA Rest Area</td> </tr> <tr> <td><input type="checkbox"/> BR Bar</td> <td><input type="checkbox"/> RC Recreation</td> </tr> <tr> <td><input checked="" type="checkbox"/> CG Campground</td> <td><input type="checkbox"/> RS Residential</td> </tr> <tr> <td><input type="checkbox"/> CH Church</td> <td><input type="checkbox"/> RT Restaurant</td> </tr> <tr> <td><input type="checkbox"/> DC Daycare Center</td> <td><input type="checkbox"/> RV RV Park</td> </tr> <tr> <td><input type="checkbox"/> DR Dude Ranch</td> <td><input type="checkbox"/> SC School</td> </tr> <tr> <td><input type="checkbox"/> HS Hospital</td> <td><input type="checkbox"/> SD Subdivision</td> </tr> <tr> <td><input type="checkbox"/> IB Interstate Bottler</td> <td><input type="checkbox"/> SK Ski Area</td> </tr> <tr> <td><input type="checkbox"/> IF Industrial/Agricultural</td> <td><input type="checkbox"/> SS Service Station</td> </tr> <tr> <td><input type="checkbox"/> IN Institution</td> <td><input type="checkbox"/> US Water User's Association</td> </tr> <tr> <td><input type="checkbox"/> LB Local Bottler</td> <td><input type="checkbox"/> VC Visitor Center</td> </tr> <tr> <td><input type="checkbox"/> LO Lodge</td> <td><input type="checkbox"/> VM Vending Machine</td> </tr> <tr> <td><input type="checkbox"/> MA Marina</td> <td><input type="checkbox"/> WH Water Hauler</td> </tr> <tr> <td><input type="checkbox"/> MH Mobile Home Park</td> <td><input type="checkbox"/> XX Other _____</td> </tr> <tr> <td><input type="checkbox"/> MO Motel/Hotel</td> <td></td> </tr> </table> <p>Primary Service Category Description: _____</p> <p>Comments: _____</p>	<input type="checkbox"/> AP Airport	<input type="checkbox"/> PC Picnic Area	<input type="checkbox"/> BA Bathing/Swimming	<input type="checkbox"/> RA Rest Area	<input type="checkbox"/> BR Bar	<input type="checkbox"/> RC Recreation	<input checked="" type="checkbox"/> CG Campground	<input type="checkbox"/> RS Residential	<input type="checkbox"/> CH Church	<input type="checkbox"/> RT Restaurant	<input type="checkbox"/> DC Daycare Center	<input type="checkbox"/> RV RV Park	<input type="checkbox"/> DR Dude Ranch	<input type="checkbox"/> SC School	<input type="checkbox"/> HS Hospital	<input type="checkbox"/> SD Subdivision	<input type="checkbox"/> IB Interstate Bottler	<input type="checkbox"/> SK Ski Area	<input type="checkbox"/> IF Industrial/Agricultural	<input type="checkbox"/> SS Service Station	<input type="checkbox"/> IN Institution	<input type="checkbox"/> US Water User's Association	<input type="checkbox"/> LB Local Bottler	<input type="checkbox"/> VC Visitor Center	<input type="checkbox"/> LO Lodge	<input type="checkbox"/> VM Vending Machine	<input type="checkbox"/> MA Marina	<input type="checkbox"/> WH Water Hauler	<input type="checkbox"/> MH Mobile Home Park	<input type="checkbox"/> XX Other _____	<input type="checkbox"/> MO Motel/Hotel		<p align="center">SOURCES (check all that apply)</p> <p><input type="checkbox"/> SW = Surface Water <input type="checkbox"/> SWP = Surface Water Purchased</p> <p><input checked="" type="checkbox"/> GW = Groundwater <input type="checkbox"/> GWP = Groundwater Purchased</p> <p><input type="checkbox"/> GWUDI = Ground Water Under the Direct Influence of Surface Water</p> <p>If mixed, does GW receive full SW Treatment? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Is the current water source adequate in quantity? <input type="checkbox"/> Yes <input type="checkbox"/> No Describe: _____</p> <p>Have there been any interruptions in service since the last survey? <input type="checkbox"/> Yes <input type="checkbox"/> No Describe: _____</p> <p>Have there been reports of a water borne disease (2 or more people)? <input type="checkbox"/> Yes <input type="checkbox"/> No Describe: _____</p> <p>Have there been any changes to the water system since the last survey? <input type="checkbox"/> Yes <input type="checkbox"/> No Describe: _____</p> <p>Are there any changes that are planned? <input type="checkbox"/> Yes <input type="checkbox"/> No Describe: _____</p> <p>Comments: _____</p>
<input type="checkbox"/> AP Airport	<input type="checkbox"/> PC Picnic Area																																
<input type="checkbox"/> BA Bathing/Swimming	<input type="checkbox"/> RA Rest Area																																
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<input type="checkbox"/> MH Mobile Home Park	<input type="checkbox"/> XX Other _____																																
<input type="checkbox"/> MO Motel/Hotel																																	
<p align="center">SUMMARY (Describe the water system in a paragraph or two)</p> <p>_____</p>																																	
<p>The following abbreviations will be used throughout this document: NI = no information, NA = not applicable, NR = not requested, @ = potential significant deficiency.</p>																																	

Update Significant Deficiency Messages

SIGNIFICANT DEFICIENCIES

Significant deficiencies include, but are not limited to, defects in the design, operation, or maintenance, or a failure or malfunction of the sources, treatment, storage, or distribution system, that the EPA determines to be causing, or have the potential for causing, the introduction of contamination into the water delivered to consumers. Please note the instructions for responding to significant deficiencies in the attached cover letter. Failure to provide a response to the EPA could result in a violation.

UNCORRECTED SIGNIFICANT DEFICIENCIES FROM PRIOR SANITARY SURVEY

Numbered significant deficiencies and associated numbered photos if applicable

RECOMMENDATIONS

Numbered recommendations and associated numbered photos if applicable

1. ~~Significant Deficiency: No Emergency Response Plan (ERP)~~

~~The Emergency Response Plan (ERP) must detail emergency operations procedures for possible foreseeable emergencies such as power outage, loss of water, equipment failure, development of unsafe conditions, and other emergency conditions. Templates, including instructions, for developing ERPs may be found on the USEPA Region 8 Drinking Water Online website: <http://www.epa.gov/region8/waterops/reporting/forms.html#erp>.~~

CONSECUTIVE SYSTEMS

(i.e. does this PWS receive some or all of its finished water from another PWS?)

☐ NA

Name of Wholesaler (System Receives Water From)	PWS ID of Wholesaler	Water Source Type	Connection Type
_____ Comments: _____	_____ Comments: _____	<input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> Mixed If mixed, does GW receive full SW Treatment? <input type="checkbox"/> Yes <input type="checkbox"/> No. Type of residual disinfectant in water supplied: <input type="checkbox"/> Chlorine <input type="checkbox"/> Chloramines <input type="checkbox"/> None Type of corrosion inhibitor applied: <input type="checkbox"/> Phosphate-based <input type="checkbox"/> Silicate-based <input type="checkbox"/> None Comments: _____	<input type="checkbox"/> Permanent <input type="checkbox"/> Seasonal, # Days/Yr: _____ <input type="checkbox"/> Emergency Only Comments: _____
_____ Comments: _____	_____ Comments: _____	<input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> Mixed If mixed, does GW receive full SW Treatment? <input type="checkbox"/> Yes <input type="checkbox"/> No. Type of residual disinfectant in water supplied: <input type="checkbox"/> Chlorine <input type="checkbox"/> Chloramines <input type="checkbox"/> None Type of corrosion inhibitor applied: <input type="checkbox"/> Phosphate-based <input type="checkbox"/> Silicate-based <input type="checkbox"/> None Comments: _____	<input type="checkbox"/> Permanent <input type="checkbox"/> Seasonal, # Days/Yr: _____ <input type="checkbox"/> Emergency Only Comments: _____
_____ Comments: _____	_____ Comments: _____	<input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> Mixed If mixed, does GW receive full SW Treatment? <input type="checkbox"/> Yes <input type="checkbox"/> No. Type of residual disinfectant in water supplied: <input type="checkbox"/> Chlorine <input type="checkbox"/> Chloramines <input type="checkbox"/> None Type of corrosion inhibitor applied: <input type="checkbox"/> Phosphate-based <input type="checkbox"/> Silicate-based <input type="checkbox"/> None Comments: _____	<input type="checkbox"/> Permanent <input type="checkbox"/> Seasonal, # Days/Yr: _____ <input type="checkbox"/> Emergency Only Comments: _____

How many master meter connections exist from the wholesale system to the consecutive system? _____

Who is responsible for maintenance of the master meter connection(s) from the wholesale system?

- ☐ Wholesaler
☐ Consecutive system

Comments: _____

If the consecutive system is responsible:

Check the condition of the principal master meter and the pit for leaks or flooding and describe any concerns: _____

How often are the master meter connections inspected? _____

How often are the master meter connections serviced? _____

Is there standing water present in any meter pits? ☐ Yes ☐ No

If so, what is the source of the standing water?

- ☐ Leaks @
☐ Groundwater
☐ Don't know @

Comments: _____

If PWS Purchases Water from a WATER HAULER:

Name of hauler: _____

WY Dept. of Agriculture license number: _____

Name of the water system supplying water to the hauler: _____

Is there a water tight cap on the (water system's) fill port? @ ☐ Yes ☐ No

How does the operator check chlorine residual at the time of delivery? _____

Comments: _____

WHOLESALE SYSTEMS
(i.e. does this PWS supply finished water to another PWS?)
☐ NA

Name of Consecutive (System Supplies Water To)	PWS ID or State ID of Consecutive (if no PWS ID provide contact and address)	Population	Connection Type
_____	_____	_____	<input type="checkbox"/> Permanent <input type="checkbox"/> Seasonal, # Days/Yr _____ <input type="checkbox"/> Emergency Only <input type="checkbox"/> Water is hauled (bulk water fill stations are described in Distribution section)
_____	_____	_____	<input type="checkbox"/> Permanent <input type="checkbox"/> Seasonal, # Days/Yr _____ <input type="checkbox"/> Emergency Only <input type="checkbox"/> Water is hauled (bulk water fill stations are described in Distribution section)
_____	_____	_____	<input type="checkbox"/> Permanent <input type="checkbox"/> Seasonal, # Days/Yr _____ <input type="checkbox"/> Emergency Only <input type="checkbox"/> Water is hauled (bulk water fill stations are described in Distribution section)

Comments: _____

How many master meter connections exist off the wholesale system? _____

Who is responsible for maintenance of those connection(s)?

☐ Wholesaler

☐ Consecutive system

Comments: _____

If the wholesaler is responsible, how often is inspection performed on the master meter connection(s)? _____

If the wholesaler is responsible, how often is maintenance performed on the master meter connection(s)? _____

Does standing water exist in any meter pits for which the wholesale system is responsible? ☐ Yes ☐ No

If so, what is the source of the standing water?

☐ Leaks @

☐ Groundwater

☐ Don't know @

Comments: _____

SOURCE DATA

ACTIVE (PHYSICALLY CONNECTED) WELLS AND WELL PUMPS

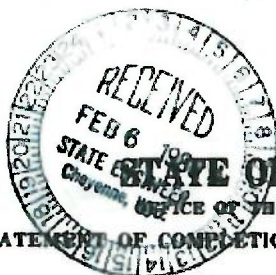
(if well is GWUDI and fully treated as SW, these will be recommendations)
☐ NA

Well Name:	<u>Beartooth Campground #1</u>	<u>Beartooth Campground #2</u>	_____
Well owner (if different than system owner):	_____	_____	_____
Facility ID (from PWS inventory, e.g., WL01):	<u>WL01</u>	<u>WL02</u>	_____
Well Location: (well house, well pit/pitless adapter, driveway/parking lot, combination, etc.)	_____	_____	_____
Does system want this well to be considered inactive? @	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Adequately protected from vehicle damage? @	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
If well is located in a pit or vault, is the pit or vault completely watertight?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
If no, is the pit or vault completed with drainage or a sump pump for permanent or portable use? @ If applicable, indicate type (permanent pump, portable pump, or drainage)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA Type: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA Type: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA Type: _____
Is the pit located in a building?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
WY DEQ and/or WY SEO permit #:	<u>62852</u>	<u>62850</u>	_____
Are there any approved WY DEQ Chapter 12 variances for this well? If yes, describe what type of variance was approved.	<input type="checkbox"/> Yes <input type="checkbox"/> No _____	<input type="checkbox"/> Yes <input type="checkbox"/> No _____	<input type="checkbox"/> Yes <input type="checkbox"/> No _____
Total Well Depth (ft):	<u>75</u>	<u>105</u>	_____
Depth range of shallowest casing perforations (ft):	<u>70</u> to <u>75</u>	<u>100</u> to <u>105</u>	_____ to _____
Actual yield (gpm):	_____	_____	_____
Well log or Statement of Completion on site? (If yes, please copy or photograph and submit with report)	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Well Construction			
Does SW runoff drain away from the wellhead (including wells in pits or vaults)? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Does well casing terminate at least 12" above the concrete floor? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Does the well casing terminate at least 18" above the natural ground surface? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
What is the actual casing height (inches)?	_____	_____	_____
Any holes or openings observed in the well or its appurtenances? @ If yes, describe.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA _____
Does the well have a sanitary seal with tightly bolted cap? @ (May need operator to open well cap to verify; explain why if unable to verify)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
Is a gasket visible?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Does the well cap move?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Explain	_____	_____	_____
Is well vented (vent not required)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
What is the height from the ground level to the screen of the vent (inches)?	_____	_____	_____
Does the vent terminate at or above the top of the casing or pitless unit? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Is vent facing downward? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Vent screened with #24 mesh? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Is there a source water sample tap for GWR compliance?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Where is the source water tap located?	_____	_____	_____

Well Name:	Beartooth Campground #1	Beartooth Campground #2	_____
Is there an air release/vacuum relief valve (not required)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Discharge Piping Termination			
- In a downward position? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
- At least 8" above the floor? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
- Screened with #24 mesh? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Comments:	_____	_____	_____
Well Pumps	<input type="checkbox"/> NA		
Submersible Pump?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Other type of pump? (if other, describe and indicate location in the comment field below)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
NSF-60 lubricant used?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Operable and in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Maintenance program in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Is the external pump subject to flooding? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Spare parts available?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Emergency power available?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Comments	_____	_____	_____
<p>Are there any sources of pollution near the wells which could possibly impact water quality? @ <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Examples: Septic systems, chemical storage/mixing facilities, agriculture activities, industrial activities, animal enclosures, cleaning supplies, oil/fuel, etc)</p> <p>If yes, indicate impacted well(s) and provide general location and comments (please locate on aerial map and provide photos): _____</p> <p>How far from the well is the source of pollution located? _____</p> <p>Mice or other animals and their droppings in immediate area (well house, vault, pit, etc.) @ <input type="checkbox"/> Yes <input type="checkbox"/> No _____</p> <p>Are there seasonal variations in the quantity of the water? <input type="checkbox"/> Yes <input type="checkbox"/> No _____</p> <p>Are there seasonal variations in the quality of the water? <input type="checkbox"/> Yes <input type="checkbox"/> No _____</p> <p>How does the system handle sewage?</p> <p><input type="checkbox"/> Centralized Sewage Treatment</p> <p><input type="checkbox"/> Septic Systems with Pumped Vaults</p> <p><input type="checkbox"/> Septic Systems with Leach Fields (mark location on aerial if near well)</p> <p>Comments: _____</p>			

Form U.W. 6

IF WELL IS TO BE
ABANDONED, SEE
ITEM 15, PAGE 4



NOTE: Do not fold this form. Use type-
writer or print neatly with black
ink.

FILED JAN 19 '83

STATEMENT OF COMPLETION AND DESCRIPTION OF WELL

SCANNED DEC 17 2012

PERMIT NO. U.W. 62852

NAME OF WELL Beartooth Campground #1

1. NAME OF OWNER Shoshone National Forest
2. ADDRESS P.O. Box 2140 Zip Code _____
3. USE OF WATER: Domestic ☒ Stock Watering ☐ Irrigation ☐ Municipal ☐ Industrial ☐ Miscellaneous ☒
Campground water supply
4. LOCATION OF WELL: SE 1/4 SE 1/4 of Section 6, T. 57 N., R. 105 W., of the 6th P.M. (or W.R.M.),
Wyoming, being specifically _____
(Bearing and Distance)
or _____ ft. North and _____ ft. East from the _____ corner of Section _____, T. _____ N., R. _____ W.
(Strike out words not needed).
5. TYPE OF CONSTRUCTION: Drilled ☒ CP 450 Ws. Mi Rotary Dug ☐ Driven ☐ Jetted ☐
(Type of Rig)
Other _____
6. CONSTRUCTION: Total Depth of Well 75 ft. Depth to Static Water Level 29 ft.
 - a. Casing Schedule New ☒ Used ☐
6 5/8" ID diameter from 0 ft. to 75 ft. Material Steel Gage .280
_____ diameter from _____ ft. to _____ ft. Material _____ Gage _____
_____ diameter from _____ ft. to _____ ft. Material _____ Gage _____
 - b. Perforations: Type of perforator used Nashini 6 Rows
Size of perforations 3/8 inches by 3 inches.
Number of perforations and depths where perforated:
60 perforations from 70 ft. to 75 feet.
_____ perforations from _____ ft. to _____ feet.
 - c. Was well screen installed? Yes ☐ No ☒
Diameter: _____ slot size: _____ set from _____ feet to _____ feet.
Diameter: _____ slot size: _____ set from _____ feet to _____ feet.
 - d. Was well gravel packed? Yes ☐ No ☒ Size of gravel _____
 - e. Was surface casing used Yes ☐ No ☒ Was it cemented in place? Yes ☐ No ☒
7. NAME & ADDRESS OF DRILLER Clair H. Stephens Fillmore UT 89631
8. DATE OF COMPLETION OF WELL (including pump installation) Sept 19 - 1979
9. PUMP INFORMATION: Manufacturer Baker Monitor Type Hand Model 11 HP
Source of power Hand Horsepower _____ Depth of Pump Setting 3/2
Amount of Water Being Pumped 10 Gallons Per Minute. (For springs or flowing wells, see item 11.)

62852

Permit No. U.W. _____

Book No. 108 Page No. 83

Form U.W. 6

IF WELL IS TO BE
ABANDONED, SEE
ITEM 15, PAGE 4



NOTE: Do not fold this form. Use type-
writer or print neatly with black
ink.

FILED JAN 19 '83

STATEMENT OF COMPLETION AND DESCRIPTION OF WELL

SCANNED DEC 17 2012

PERMIT NO. U.W. 62850

NAME OF WELL Bear Tooth Camp ground #2

1. NAME OF OWNER Shoshone National Forest
2. ADDRESS P.O. Box 2140 Cody, WY Zip Code 82414
3. USE OF WATER: Domestic ☒ Stock Watering ☐ Irrigation ☐ Municipal ☐ Industrial ☐ Miscellaneous ☒
Campground water supply
4. LOCATION OF WELL: SW 1/4 of Section 15 T. 5 N., R. 105 W., of the 6th P.M. (or W.R.M.),
Wyoming, being specifically Per Sec Partition 11/1/2006 6
(Bearing and Distance)
or _____ ft. North and _____ ft. East from the _____ corner of Section _____, T. _____ N., R. _____ W.
(Strike out words not needed).
5. TYPE OF CONSTRUCTION: Drilled ☒ CP 650 WS Bit Rotary Dug ☐ Driven ☐ Jetted ☐
(Type of Rig)
Other _____
6. CONSTRUCTION: Total Depth of Well 105 ft. Depth to Static Water Level 28 ft.
 - a. Casing Schedule New ☒ Used ☐
6 5/8" ID diameter from 0 ft. to 105 ft. Material Steel Gage 280
_____ diameter from _____ ft. to _____ ft. Material _____ Gage _____
_____ diameter from _____ ft. to _____ ft. Material _____ Gage _____
 - b. Perforations: Type of perforator used Machine 6 Rows
Size of perforations 3/4 inches by 3 inches.
Number of perforations and depths where perforated:
60 perforations from 100 ft. to 105 feet.
_____ perforations from _____ ft. to _____ feet.
 - c. Was well screen installed? Yes ☐ No ☒
Diameter: _____ slot size: _____ set from _____ feet to _____ feet.
Diameter: _____ slot size: _____ set from _____ feet to _____ feet.
 - d. Was well gravel packed? Yes ☐ No ☒ Size of gravel _____
 - e. Was surface casing used Yes ☐ No ☒ Was it cemented in place? Yes ☐ No ☐
7. NAME & ADDRESS OF DRILLER Clair H. Stephenson Fillmore, UT 84311
8. DATE OF COMPLETION OF WELL (including pump installation) Sept 18 - 1999
9. PUMP INFORMATION: Manufacturer Baker Monitor Type Hand Model 11 HP
Source of power Hand Horsepower _____ Depth of Pump Setting 89
Amount of Water Being Pumped 10 Gallons Per Minute. (For springs or flowing wells, see item 11.)

62850

Permit No. U.W. _____

Back No. 108 Page No. 81

Document control # R8FQPForm-1010 R1

- If so, by whom Clair H. Stephenson Address Fillmore U4 84631

Yield: Well Pumped Out gal./min. with _____ foot drawdown after _____ hours.

Yield: _____ gal./min. with _____ foot drawdown after _____ hours.

- If well yields artesian flow, yield is _____ gal./min. Surface pressure is _____ lb./sq. inch, or _____ feet of water.

Does well leak around casing? Yes ☐ No ☐

- Depth of completed well 105 feet. Diameter of well _____ inches.

Depth to first water bearing formation 95 feet.

Depth to principal water bearing formation Top 95 feet to Bottom 105 feet.

Ground Elevation, if known _____

QUALITY OF WATER INFORMATION:

Was a chemical analysis made? Yes ☐ No ☐

If so, please include a copy of the analysis with this form.

If not, do you consider the water as: Good ☐ Acceptable ☐ Poor ☐ Unusable ☐

SOURCE DATA

ACTIVE (PHYSICALLY CONNECTED) WELLS AND WELL PUMPS

(if well is GWUDI and fully treated as SW, these will be recommendations)
☐ NA

Well Name:	_____	_____	_____
Well owner (if different than system owner):	_____	_____	_____
Facility ID (from PWS inventory, e.g., WL01):	_____	_____	_____
Well Location: (well house, well pit, pitless adapter, combination, driveway/ parking lot, other)	_____	_____	_____
Does system want this well to be considered inactive? @	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Adequately protected from vehicle damage? @	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
If well is located in a pit or vault, is the pit or vault completely watertight?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
If no, is the pit or vault completed with drainage or a sump pump for permanent or portable use? @ If applicable, indicate type (permanent pump, portable pump, or drainage)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA Type: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA Type: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA Type: _____
Is the pit located in a building?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
WY DEQ and/or WY SEO permit #:	_____	_____	_____
Are there any approved WY DEQ Chapter 12 variances for this well? If yes, describe what type of variance was approved.	<input type="checkbox"/> Yes <input type="checkbox"/> No _____	<input type="checkbox"/> Yes <input type="checkbox"/> No _____	<input type="checkbox"/> Yes <input type="checkbox"/> No _____
Total Well Depth (ft):	_____	_____	_____
Depth range of shallowest casing perforations (ft):	_____ to _____	_____ to _____	_____ to _____
Actual yield (gpm):	_____	_____	_____
Well log or Statement of Completion on site? (If yes, please copy or photograph and submit with report)	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Well Construction			
Does SW runoff drain away from the wellhead (including wells in pits or vaults)? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Does well casing terminate at least 12" above the concrete floor? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Does the well casing terminate at least 18" above the natural ground surface? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
What is the actual casing height (inches)?	_____	_____	_____
Any holes or openings observed in the well or its appurtenances? If yes, describe.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA _____	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA _____
Does the well have a sanitary seal with tightly bolted cap? @ (May need operator to open well cap to verify; explain why if unable to verify)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
Is a gasket visible?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Does the well cap move?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Explain	_____	_____	_____
Is well vented (vent not required)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
What is the height from the ground level to the screen of the vent (inches)?	_____	_____	_____
Does the vent terminate at or above the top of the casing or pitless unit? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Is vent facing downward? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Vent screened with #24 mesh? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Is there a source water sample tap for GWR compliance?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Well Name:	_____	_____	_____
Where is the source water tap located?	_____	_____	_____
Is there an air release/vacuum relief valve (not required)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Discharge Piping Termination			
- In a downward position? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
- At least 8" above the floor? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
- screened with #24 mesh? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Comments:	_____	_____	_____
Well Pumps			
Submersible Pump?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Other type of pump? (if other, describe and indicate location in the comment field below)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
NSF-60 lubricant used?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Operable and in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Maintenance program in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Is the external pump subject to flooding? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Spare parts available?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Emergency power available?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Comments	_____	_____	_____
<p>Are there any sources of pollution near the wells which could possibly impact water quality? @ <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Examples: Septic systems, chemical storage/mixing facilities, agriculture activities, industrial activities, animal enclosures, cleaning supplies, oil/fuel, etc)</p> <p>If yes, indicate impacted well(s) and provide general location and comments (please locate on aerial map and provide photos): _____</p> <p>How far from the well is the source of pollution located? _____</p> <p>Mice or other animals and their droppings in immediate area (well house, vault, pit, etc.) @ <input type="checkbox"/> Yes <input type="checkbox"/> No _____</p> <p>Are there seasonal variations in the quantity of the water? <input type="checkbox"/> Yes <input type="checkbox"/> No _____</p> <p>Are there seasonal variations in the quality of the water? <input type="checkbox"/> Yes <input type="checkbox"/> No _____</p> <p>How does the system handle sewage?</p> <p><input type="checkbox"/> Centralized Sewage Treatment</p> <p><input type="checkbox"/> Septic Systems with Pumped Vaults</p> <p><input type="checkbox"/> Septic Systems with Leach Fields (mark location on aerial if near well)</p> <p>Comments: _____</p>			

SOURCE DATA

SPRINGS AND ASSOCIATED PUMPS

(if spring is GWUDI and fully treated as SW, these will be recommendations)
☐ NA

Spring name: _____ Spring owner if different than system owner: _____ Facility ID (from PWS Inventory, e.g., SPR01): _____ WY DEQ permit number: _____ WY SEO permit number: _____ Are there any approved WY DEQ Chapter 12 variances for this spring? If yes, describe what type of variance was approved: _____	Description of the intake to the spring collection box (i.e., how the spring water is collected and conveyed into the box): _____ Actual yield (gpm): _____ Please copy or photograph any available construction diagrams or "as-builts" and submit with the sanitary survey report. Comments: _____																																																																																																								
<table style="width: 100%;"> <tr> <th style="text-align: left;">SPRING COLLECTION BOX</th> <th style="text-align: center;">Yes</th> <th style="text-align: center;">No</th> <th style="text-align: center;">NA</th> </tr> <tr> <td>Are the spring collection area and spring box fenced to keep large animals away? @</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Does surface water runoff drain away from the collection area? @</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Is there deep rooted vegetation around the spring collection area and spring box? @</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td colspan="4">Describe: _____</td> </tr> <tr> <td colspan="4">Does the spring collection box have the following features:</td> </tr> <tr> <td>Proper shoe box cover? @</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Rubber gasket on the access hatch cover? @</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Air vents screened with #24 mesh? @</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Is the hatch cover locked? @</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Overflow screened with #24 mesh screen? @</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Does overflow have a free fall of at least 12 inches? @</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Is the spring collection box water tight to prevent inflow of unwanted surface water? @</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td colspan="4">Comments: _____</td> </tr> </table>	SPRING COLLECTION BOX	Yes	No	NA	Are the spring collection area and spring box fenced to keep large animals away? @	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does surface water runoff drain away from the collection area? @	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is there deep rooted vegetation around the spring collection area and spring box? @	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Describe: _____				Does the spring collection box have the following features:				Proper shoe box cover? @	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rubber gasket on the access hatch cover? @	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Air vents screened with #24 mesh? @	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is the hatch cover locked? @	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Overflow screened with #24 mesh screen? @	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does overflow have a free fall of at least 12 inches? @	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is the spring collection box water tight to prevent inflow of unwanted surface water? @	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Comments: _____				<table style="width: 100%;"> <tr> <th colspan="4" style="text-align: left;">SOURCE PUMPS</th> </tr> <tr> <td colspan="4">Location of the pump station: _____</td> </tr> <tr> <td colspan="4">How many pumps at the facility? _____</td> </tr> <tr> <td colspan="4">Type of pump(s): _____</td> </tr> <tr> <td></td> <td style="text-align: center;">Yes</td> <td style="text-align: center;">No</td> <td style="text-align: center;">NA</td> </tr> <tr> <td>Are the correct types of lubricants (NSF-60) used?</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Are pumps operable and in good condition?</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Is there a maintenance program in operation?</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Is the pump station subject to flooding? @</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Are spare parts available?</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Is emergency power available?</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td colspan="4">Comments: _____</td> </tr> </table>	SOURCE PUMPS				Location of the pump station: _____				How many pumps at the facility? _____				Type of pump(s): _____					Yes	No	NA	Are the correct types of lubricants (NSF-60) used?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are pumps operable and in good condition?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is there a maintenance program in operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is the pump station subject to flooding? @	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are spare parts available?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is emergency power available?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Comments: _____			
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Is the spring collection box water tight to prevent inflow of unwanted surface water? @	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																						
Comments: _____																																																																																																									
SOURCE PUMPS																																																																																																									
Location of the pump station: _____																																																																																																									
How many pumps at the facility? _____																																																																																																									
Type of pump(s): _____																																																																																																									
	Yes	No	NA																																																																																																						
Are the correct types of lubricants (NSF-60) used?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																						
Are pumps operable and in good condition?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																						
Is there a maintenance program in operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																						
Is the pump station subject to flooding? @	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																						
Are spare parts available?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																						
Is emergency power available?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																																																						
Comments: _____																																																																																																									
For any other hatches/manholes that are part of the spring collection system or on the transmission line from the spring box to the a storage tank or distribution system: (describe the condition of each)																																																																																																									
<table style="width: 100%;"> <tr> <td>Proper shoe box cover on the access hatch/manhole? @</td> <td style="text-align: center;"><input type="checkbox"/> Yes</td> <td style="text-align: center;"><input type="checkbox"/> No</td> <td rowspan="3">Description and location: _____</td> </tr> <tr> <td>Rubber gasket on the access hatch/manhole cover? @</td> <td style="text-align: center;"><input type="checkbox"/> Yes</td> <td style="text-align: center;"><input type="checkbox"/> No</td> </tr> <tr> <td>Is the hatch cover Locked? @</td> <td style="text-align: center;"><input type="checkbox"/> Yes</td> <td style="text-align: center;"><input type="checkbox"/> No</td> </tr> </table>				Proper shoe box cover on the access hatch/manhole? @	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Description and location: _____	Rubber gasket on the access hatch/manhole cover? @	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Is the hatch cover Locked? @	<input type="checkbox"/> Yes	<input type="checkbox"/> No																																																																																												
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Is the hatch cover Locked? @	<input type="checkbox"/> Yes	<input type="checkbox"/> No																																																																																																							
Are there any sources of pollution near the springs which could possibly impact water quality? @ <input type="checkbox"/> Yes <input type="checkbox"/> No (Examples: Septic systems, chemical storage/mixing facilities, agriculture activities, industrial activities, animal enclosures, cleaning supplies, oil/fuel, etc)																																																																																																									
If yes, indicate impacted spring(s) and provide general location and comments (please locate on aerial map and provide photos): _____																																																																																																									
How far from the spring is the source of pollution located? _____																																																																																																									
<table style="width: 100%;"> <tr> <td>Mice or other animals and their droppings in immediate area (spring house, etc.) @</td> <td style="text-align: center;"><input type="checkbox"/> Yes</td> <td style="text-align: center;"><input type="checkbox"/> No</td> <td>_____</td> </tr> <tr> <td>Are there seasonal variations in the quantity of the water?</td> <td style="text-align: center;"><input type="checkbox"/> Yes</td> <td style="text-align: center;"><input type="checkbox"/> No</td> <td>_____</td> </tr> <tr> <td>Are there seasonal variations in the quality of the water?</td> <td style="text-align: center;"><input type="checkbox"/> Yes</td> <td style="text-align: center;"><input type="checkbox"/> No</td> <td>_____</td> </tr> </table>				Mice or other animals and their droppings in immediate area (spring house, etc.) @	<input type="checkbox"/> Yes	<input type="checkbox"/> No	_____	Are there seasonal variations in the quantity of the water?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	_____	Are there seasonal variations in the quality of the water?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	_____																																																																																										
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Are there seasonal variations in the quality of the water?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	_____																																																																																																						
How does the system handle sewage?																																																																																																									
<table style="width: 100%;"> <tr> <td><input type="checkbox"/> Centralized Sewage Treatment</td> </tr> <tr> <td><input type="checkbox"/> Septic Systems with Pumped Vaults</td> </tr> <tr> <td><input type="checkbox"/> Septic Systems with Leach Fields (mark location on aerial if near spring)</td> </tr> </table>				<input type="checkbox"/> Centralized Sewage Treatment	<input type="checkbox"/> Septic Systems with Pumped Vaults	<input type="checkbox"/> Septic Systems with Leach Fields (mark location on aerial if near spring)																																																																																																			
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Comments: _____

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SOURCE DATA FOR INTAKE LOCATED IN STREAMS, AND ASSOCIATED PUMPS

☐ NA

STREAMS	INTAKE PUMPS																																
Stream name: _____ Facility ID (from PWS Inventory, e.g., IN01): _____ WY DEQ permit number: _____ WY SEO permit number: _____ Is the area around the intake restricted? <input type="checkbox"/> Yes <input type="checkbox"/> No Are there multiple intakes located at different levels? <input type="checkbox"/> Yes <input type="checkbox"/> No Describe: _____ Are the intake(s) screened? <input type="checkbox"/> Yes <input type="checkbox"/> No Frequency of intake inspection: _____ Date of last inspection: _____ Are there seasonal algal blooms present? <input type="checkbox"/> Yes <input type="checkbox"/> No Describe: _____ Is an algacide ever used to control algae? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____ Please copy or photograph any available construction diagrams or "as-builts" and submit with the sanitary survey report	Location of the pump station: _____ How many pumps at the facility? _____ Type of pump(s): _____ <table style="width: 100%; border: none;"> <tr> <th></th> <th style="text-align: center;">Yes</th> <th style="text-align: center;">No</th> <th style="text-align: center;">NA</th> </tr> <tr> <td>Are the correct types of lubricants (NSF-60) used?</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Are pumps operable and in good condition?</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Is there a maintenance program in operation?</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Is the pump station subject to flooding?</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Are spare parts available?</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td>Is emergency power available?</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> <tr> <td colspan="4">Comments: _____</td> </tr> </table>		Yes	No	NA	Are the correct types of lubricants (NSF-60) used?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are pumps operable and in good condition?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is there a maintenance program in operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is the pump station subject to flooding?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are spare parts available?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is emergency power available?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Comments: _____			
	Yes	No	NA																														
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Is emergency power available?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																														
Comments: _____																																	
<p style="color: red;">Are there any sources of pollution near the stream (e.g., agriculture/industrial activities, cleaning supplies, oil/fuel, etc.) which could impact water quality? @ <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes, indicate impacted stream(s) and provide general location and comments (please locate on aerial map and provide photos): _____</p> <p>How far from the stream is the source of pollution located? _____</p> <p>Are there seasonal variations in the quantity of the water? <input type="checkbox"/> Yes <input type="checkbox"/> No _____</p> <p>Are there seasonal variations in the quality of the water? <input type="checkbox"/> Yes <input type="checkbox"/> No _____</p> <p>Comments: _____</p>																																	

**SOURCE DATA FOR INTAKE LOCATED IN
RESERVOIRS, LAKES AND PONDS AND ASSOCIATED PUMPS**
☐ NA

Reservoir or lake name: _____																													
Facility ID (from PWS Inventory, e.g., IN01): _____																													
WY DEQ permit number: _____																													
WY SEO permit number: _____																													
RESERVOIRS Is the area around the intake(s) restricted? <input type="checkbox"/> Yes <input type="checkbox"/> No Are there multiple intakes located at different levels? <input type="checkbox"/> Yes <input type="checkbox"/> No Describe: _____ Depth of intake(s): _____ Distance from shore: _____ Are the intake(s) screened? <input type="checkbox"/> Yes <input type="checkbox"/> No Frequency of intake inspection: _____ Date of last inspection: _____ Are there seasonal algal blooms present? <input type="checkbox"/> Yes <input type="checkbox"/> No Describe: _____ Is an algaecide ever used to control algae? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, describe: _____ Please copy or photograph any available construction diagrams or "as-builts" and submit with the sanitary survey report	INTAKE PUMPS Location of the pump station: _____ How many pumps at the facility? _____ Type of pump(s): _____ <table><thead><tr><th></th><th>Yes</th><th>No</th><th>NA</th></tr></thead><tbody><tr><td>Are the correct types of lubricants (NSF-60) used?</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Are pumps operable and in good condition?</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Is there a maintenance program in operation?</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Is the pump station subject to flooding?</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Are spare parts available?</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Is emergency power available?</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr></tbody></table> Comments: _____		Yes	No	NA	Are the correct types of lubricants (NSF-60) used?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are pumps operable and in good condition?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is there a maintenance program in operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is the pump station subject to flooding?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are spare parts available?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is emergency power available?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Is emergency power available?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																										
<p>Are there any sources of pollution near the reservoir/lake/pond (e.g., agriculture/industrial activities, cleaning supplies, oil/fuel, etc.) which could impact water quality? @ <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes, indicate impacted reservoir/lake/pond(s) and provide general location and comments (please locate on aerial map and provide photos): _____</p> <p>How far from the reservoir/lake/pond is the source of pollution located? _____</p> <p>Are there seasonal variations in the quantity of the water? <input type="checkbox"/> Yes <input type="checkbox"/> No _____</p> <p>Are there seasonal variations in the quality of the water? <input type="checkbox"/> Yes <input type="checkbox"/> No _____</p> <p>Comments: _____</p>																													

SOURCE DATA

EMERGENCY BACKUP SOURCE WATER

Describe any backup source water possibly available during an emergency to the PWS, or indicate none: _____

Is the backup water source physically disconnected from the water system? ☐ Yes ☐ No _____
(if this is a raw water source and is still physically connected to the system, then stop filling out this section and complete the applicable source data section)

Backup source name: _____

Facility ID (from PWS Inventory, e.g., IN01, WL01, etc.): _____

WY DEQ permit number: _____

WY SEO permit number: _____

Are there seasonal algal blooms present? ☐ Yes ☐ No ☐ NA

Describe: _____

Is an algaecide ever used to control algae? ☐ Yes ☐ No ☐ NA

If yes, describe: _____

Please copy or photograph any available construction diagrams or "as-builts" and submit with the sanitary survey report

Are there any sources of pollution near the emergency backup source (e.g., agriculture/industrial activities, cleaning supplies, oil/fuel, etc.) which could impact water quality? @ ☐ Yes ☐ No

If yes, indicate impacted emergency backup source(s) and provide general location and comments (please locate on aerial map and provide photos): _____

How far from the emergency backup source is the source of pollution located? _____

Mice or other animals and their droppings in immediate area (**well house, vault, pit, etc.**). ☐ Yes ☐ No _____

Are there seasonal variations in the quantity of the water? ☐ Yes ☐ No _____

Are there seasonal variations in the quality of the water? ☐ Yes ☐ No _____

Comments: _____

RAW WATER TO TREATMENT PLANT TRANSMISSION LINE

☐ NA

Name or designation: _____	
SW <input type="checkbox"/> GW <input checked="" type="checkbox"/>	
Point of origin: _____	
Point of termination: _____	
Approximate Length: _____	
Material: _____	
Are there any service connections off the raw water transmission line? @ <input type="checkbox"/> Yes <input type="checkbox"/> No _____ (Check yes only if the water system provides treated water to the rest of the distribution system)	
What does each connection serve? _____	
If used for potable water supply, is there a legal agreement or contract in place? <input type="checkbox"/> Yes <input type="checkbox"/> No _____	
If used for potable water supply, is the water treated at the connection and how? <input type="checkbox"/> Yes <input type="checkbox"/> No _____	

Name or designation: _____	
SW <input type="checkbox"/> GW <input type="checkbox"/>	
Point of origin: _____	
Point of termination: _____	
Approximate Length? _____	
Material: _____	
Are there any service connections off the raw water transmission line? @ <input type="checkbox"/> Yes <input type="checkbox"/> No _____ (Check yes only if the water system provides treated water to the rest of the distribution system)	
What does each connection serve? _____	
If used for potable water supply, is there a legal agreement or contract in place? <input type="checkbox"/> Yes <input type="checkbox"/> No _____	
If used for potable water supply, is the water treated at the connection and how? <input type="checkbox"/> Yes <input type="checkbox"/> No _____	

DISTRIBUTION BOOSTER PUMP STATIONS

☐ NA

Location of the pump station: _____			
How many pumps at the facility? _____			
Type of pumps: _____			
	Yes	No	NA
Are the correct types of lubricants (NSF-60) used?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> _____
Is the pump station subject to flooding? @	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> _____

Are pumps operable and in good condition?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> _____
Is there a maintenance program in operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> _____
Are spare parts available?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> _____
Is emergency power available?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> _____

HYDROPNEUMATIC TANKS

☐ NA

<p>Type of Tanks <input type="checkbox"/> Captive Air Bladder Tank <input type="checkbox"/> Pressure Tank that uses an air compressor</p> <p>Number of tanks: _____</p> <p>Location, Description: _____</p> <p>Dates put into service: _____</p> <p>Is there an operable pressure gauge? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Is there evidence of severe rust? @ <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Is there evidence of water leaks? @ <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Is there evidence of air leaks? @ <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Is there evidence of flooding (if in a vault)? @ <input type="checkbox"/> NA <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Is there a pressure relief valve? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Can tank(s) be by-passed for repair? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>For any tank that uses an air compressor, is the tank age older than the life expectancy? @ (Manufacturer and model number) _____</p> <p>Comments: _____</p>	
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GRAVITY TANKS

☐ NA

Complete for all tanks at ground water systems and consecutive systems. Also complete for finished water tanks at surface water / GWUDI systems. (Includes indoor clearwells and contact tanks or other finished water tanks.)				
Tank Name:	_____	_____	_____	_____
Tank ID (from PWS inventory, e.g., ST01):	_____	_____	_____	_____
Tank owner (if different than system owner):	_____	_____	_____	_____
Location (indoor or outdoor):	_____	_____	_____	_____
Date put into service	_____	_____	_____	_____
Tank Type	Below ground (buried or partially buried) Ground level Elevated (pedestal or standpipe)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Tank is constructed of:	Concrete Steel Fiberglass Other	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____
What type of water is stored (GW systems only)?	<input type="checkbox"/> Treated <input type="checkbox"/> Raw	<input type="checkbox"/> Treated <input type="checkbox"/> Raw	<input type="checkbox"/> Treated <input type="checkbox"/> Raw	<input type="checkbox"/> Treated <input type="checkbox"/> Raw
Storage volume (gallons)?	_____	_____	_____	_____
Are there any approved WY DEQ Chapter 12 variances for this tank? If yes, describe what type of variance was approved.	<input type="checkbox"/> Yes <input type="checkbox"/> No _____	<input type="checkbox"/> Yes <input type="checkbox"/> No _____	<input type="checkbox"/> Yes <input type="checkbox"/> No _____	<input type="checkbox"/> Yes <input type="checkbox"/> No _____
Is the site subject to flooding? @	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Can the tank be isolated from the system?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Is the water level indicator accurate?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Does the tank appear structurally sound? @	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Does the foundation appear structurally sound? @	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are there any unprotected openings in the tank (breaches, leaks, etc)? @	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Inspection and cleaning history				
If the tank is more than 10 years old, was it cleaned and inspected within the last 10 years? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
When and how was the tank last cleaned and inspected?	_____	_____	_____	_____
Who performed the cleaning and inspection?	_____	_____	_____	_____
How was the tank disinfected after cleaning? (NA if diver used)	_____	_____	_____	_____
Surveyor able to view report and confirm date?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
If yes, note major concerns and/or recommendations:	_____	_____	_____	_____
If Carcasses or other debris found in the tank:				
Was EPA notified immediately?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Was the entry point for the carcass or debris eliminated?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Describe:	_____	_____	_____	_____
Overflow				
Does the tank have an overflow separate from the vent? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Is the overflow accessible for inspection? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Overflow has a #24 mesh screen OR a duckbill valve OR a properly sealed flapper valve with screen inside (EPA recommends non-corrodible #24 mesh screen)? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Does the overflow line terminate no less than 12 inches but no more than 24 inches above the ground surface? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Does the overflow discharge over an inlet structure, splash plate, or engineered rip-rap? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Is the discharge visible?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Complete for all tanks at ground water systems and consecutive systems. Also complete for finished water tanks at surface water / GWUDI systems. (Includes indoor clearwells and contact tanks or other finished water tanks.)			
Tank Name:	_____	_____	_____
Does the overflow have an air gap of 3 or more pipe diameters above the entrance to any storm or sanitary sewer? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Comments about overflow:	_____	_____	_____
Drain Line			
Combined overflow and drain pipe? (If yes, skip drain questions)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Is the drain accessible for inspection? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Is there #24 mesh screen on the drain pipe?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Does water accumulate in the drain discharge area?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Does the drain pipe have an air gap of 3 or more pipe diameters above the entrance to any storm or sanitary sewer? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Does the drain pipe terminate between 12 and 24 inches above a drainage area?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Does the drain pipe terminate above an inlet structure, splash plate, or engineered rip-rap?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Comments about drain:	_____	_____	_____
Air Vent			
Does the tank have a vent separate from the overflow? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Is the vent accessible for inspection? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
For above ground tanks (ground level or elevated/standpipe):			
Is there #24 mesh screen? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
If not #24 mesh screen, what size mesh is the screen?	_____	_____	_____
Does the tank have a vacuum/pressure relief valve or other mechanism to prevent tank damage?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Is the screen on the inside of the vent pipe to discourage vandalism?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Downturned vent: Is the vent at least 24" above the roof? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
For non-downturned vents: Is there a solid cover down to the bottom of the vent screen? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
For non-downturned vents: Is the screen at least 8" above the roof surface? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Below Ground Tanks (buried or partially buried)			
Is air vent covered with #24 mesh screen? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Is the screen on the inside of the vent pipe to discourage vandalism?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Does the air vent terminate downward? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Is the air vent at least 24" above the roof or ground surface (whichever is higher)? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Comments about air vent:	_____	_____	_____
Access Hatch			
Is the hatch accessible for inspection? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Is the hatch raised at least 24" above the roof or ground (whichever is higher) on below ground tanks (buried or partially buried) or 4" above the roof for above ground tanks (ground level or elevated)? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
What is the height of the access hatch above the roof or ground surface?	_____ in	_____ in	_____ in
Does the hatch have a shoe box cover? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Is the hatch cover tight and sealed with a rubber gasket? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Complete for all tanks at ground water systems and consecutive systems. Also complete for finished water tanks at surface water / GWUDI systems. (Includes indoor clearwells and contact tanks or other finished water tanks.)			
Tank Name:	_____	_____	_____
Is the hatch cover locked? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Comments about access hatch:	_____	_____	_____
Comments:	_____	_____	_____

GRAVITY TANKS

☐ NA

Complete for all tanks at ground water systems and consecutive systems Also complete for finished water tanks at surface water / GWUDI systems. (Includes indoor clearwells and contact tanks or other finished water tanks.)			
Tank Name:	_____	_____	_____
Tank ID (from PWS inventory, e.g., ST01):	_____	_____	_____
Tank owner (if different than system owner):	_____	_____	_____
Location (indoor or outdoor):	_____	_____	_____
Date put into service	_____	_____	_____
Tank Type	<input type="checkbox"/> Below ground (buried or partially buried) <input type="checkbox"/> Ground level <input type="checkbox"/> Elevated (pedestal or standpipe)	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Tank is constructed of:	<input type="checkbox"/> Concrete <input type="checkbox"/> Steel <input type="checkbox"/> Fiberglass <input type="checkbox"/> Other	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
What type of water is stored (GW systems only)?	<input type="checkbox"/> Treated <input type="checkbox"/> Raw	<input type="checkbox"/> Treated <input type="checkbox"/> Raw	<input type="checkbox"/> Treated <input type="checkbox"/> Raw
Storage Volume (gallons)?	_____	_____	_____
Are there any approved WY DEQ Chapter 12 variances for this tank? If yes, describe what type of variance was approved.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Is the site subject to flooding? @	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Can the tank be isolated from the system?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Is the water level indicator accurate?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Does the tank appear structurally sound? @	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Does the foundation appear structurally sound? @	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are there any unprotected openings in the tank (breaches, leaks, etc)? @	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Inspection and cleaning history			
If the tank is more than 10 years old, was it cleaned and inspected within the last 10 years? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
When and how was the tank last cleaned and inspected?	_____	_____	_____
Who performed the cleaning and inspection?	_____	_____	_____
How was the tank disinfected after cleaning? (NA if diver used)	_____	_____	_____
Surveyor able to view report and confirm date?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
If yes note major concerns and/or recommendations:	_____	_____	_____
If Carcasses or other debris found in the tank:			
Was EPA notified immediately?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Was the entry point for the carcass or debris eliminated?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Describe:	_____	_____	_____
Overflow			
Does the tank have an overflow separate from the vent? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Is the overflow accessible for inspection? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Overflow has a #24 mesh screen OR a duckbill valve OR a properly sealed flapper valve with screen inside (EPA recommends a #24 mesh screen)? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Does the overflow line terminate no less than 12 inches but no more than 24 inches above the ground surface? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Does the overflow discharge over an inlet structure, splash plate, or engineered rip-rap? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Is the discharge visible?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Complete for all tanks at ground water systems and consecutive systems Also complete for finished water tanks at surface water / GWUDI systems. (Includes indoor clearwells and contact tanks or other finished water tanks.)			
Tank Name:	_____	_____	_____
Does the overflow have an air gap of 3 or more pipe diameters above the entrance to any storm or sanitary sewer? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Comments about overflow:	_____	_____	_____
Drain Line			
Combined overflow and drain pipe? (If yes, skip drain questions)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Is the drain accessible for inspection? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Is there #24 mesh screen on the drain pipe?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Does water accumulate in the drain discharge area?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Does the drain pipe have an air gap of 3 or more pipe diameters above the entrance to any storm or sanitary sewer? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Does the drain pipe terminate between 12 and 24 inches above a drainage area?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Does the drain pipe terminate above an inlet structure, splash plate, or engineered rip-rap?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Comments about drain:	_____	_____	_____
Air Vent			
Does the tank have a vent separate from the overflow? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Is the vent accessible for inspection? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
For above ground tanks (ground level or elevated/standpipe):			
Is there #24 mesh screen? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
If not #24 mesh screen, what size mesh is the screen?	_____	_____	_____
Does the tank have a vacuum/pressure relief valve or other mechanism to prevent tank damage?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Is the screen on the inside of the vent pipe to discourage vandalism?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Downturned vent: Is the vent at least 24" above the roof? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
For non-downturned vents: Is there a solid cover down to the bottom of the vent screen? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
For non-downturned vents is the screen at least 8" above the roof surface? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Below Ground Tanks (buried or partially buried)			
Is air vent covered with #24 mesh screen? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Is the screen on the inside of the vent pipe to discourage vandalism?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Does the air vent terminate downward@	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Is the air vent at least 24" above the roof or ground surface (whichever is higher)? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Comments about air vent:	_____	_____	_____
Access Hatch			
Is the hatch accessible for inspection? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Is the hatch raised at least 24" above the roof or ground (whichever is higher) on below ground tanks (buried or partially buried) or 4" above the roof for above ground tanks (ground level or elevated)? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
What is the height of the access hatch above the roof or ground surface?	_____ in	_____ in	_____ in
Does the hatch have a shoe box cover? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Is the hatch cover tight and sealed with a rubber gasket? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Complete for all tanks at ground water systems and consecutive systems Also complete for finished water tanks at surface water / GWUDI systems. (Includes indoor clearwells and contact tanks or other finished water tanks.)			
Tank Name:	_____	_____	_____
Is the hatch cover locked? @	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Comments about access hatch:	_____	_____	_____
Comments:	_____	_____	_____

WATER TREATMENT DATA

GROUNDWATER and CONSECUTIVE SYSTEMS THAT HAVE AVAILABLE TREATMENT

☐ NA

Describe the steps (as many as necessary) of the treatment process in order from the water source to distribution: _____				
Plant Output (gal/day) _____				
Design: _____				
Maximum: _____				
Any changes to treatment since the last sanitary survey? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Describe: _____				
	Step 1	Step 2	Step 3	Step 4
Process	<input type="checkbox"/> Chemical Type: _____ <input type="checkbox"/> NSF 60 Certified? <input type="checkbox"/> UV <input type="checkbox"/> Filtration <input type="checkbox"/> Ion exchange <input type="checkbox"/> Softener Other: _____ Dosage: _____	<input type="checkbox"/> Chemical Type: _____ <input type="checkbox"/> NSF 60 Certified? <input type="checkbox"/> UV <input type="checkbox"/> Filtration <input type="checkbox"/> Ion exchange <input type="checkbox"/> Softener Other: _____ Dosage: _____	<input type="checkbox"/> Chemical Type: _____ <input type="checkbox"/> NSF 60 Certified? <input type="checkbox"/> UV <input type="checkbox"/> Filtration <input type="checkbox"/> Ion exchange <input type="checkbox"/> Softener Other: _____ Dosage: _____	<input type="checkbox"/> Chemical Type: _____ <input type="checkbox"/> NSF 60 Certified? <input type="checkbox"/> UV <input type="checkbox"/> Filtration <input type="checkbox"/> Ion exchange <input type="checkbox"/> Softener Other: _____ Dosage: _____
Objective:	<input type="checkbox"/> Treatment of bacteria, viruses <input type="checkbox"/> Turbidity removal <input type="checkbox"/> Hardness removal <input type="checkbox"/> Taste & odor removal <input type="checkbox"/> Metals removal Other: _____	<input type="checkbox"/> Treatment of bacteria, viruses <input type="checkbox"/> Turbidity removal <input type="checkbox"/> Hardness removal <input type="checkbox"/> Taste & odor removal <input type="checkbox"/> Metals removal Other: _____	<input type="checkbox"/> Treatment of bacteria, viruses <input type="checkbox"/> Turbidity removal <input type="checkbox"/> Hardness removal <input type="checkbox"/> Taste & odor removal <input type="checkbox"/> Metals removal Other: _____	<input type="checkbox"/> Treatment of bacteria, viruses <input type="checkbox"/> Turbidity removal <input type="checkbox"/> Hardness removal <input type="checkbox"/> Taste & odor removal <input type="checkbox"/> Metals removal Other: _____
Is this process required by EPA?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Location of process?	<input type="checkbox"/> At Well <input type="checkbox"/> At Treatment Plant Other: _____	<input type="checkbox"/> At Well <input type="checkbox"/> At Treatment Plant Other: _____	<input type="checkbox"/> At Well <input type="checkbox"/> At Treatment Plant Other: _____	<input type="checkbox"/> At Well <input type="checkbox"/> At Treatment Plant Other: _____
Is this process adequate to meet the objective?	<input type="checkbox"/> Yes <input type="checkbox"/> No Explain: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No Explain: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No Explain: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No Explain: _____
Frequency of use:	<input type="checkbox"/> Permanent <input type="checkbox"/> Seasonal <input type="checkbox"/> Emergency Other: _____	<input type="checkbox"/> Permanent <input type="checkbox"/> Seasonal <input type="checkbox"/> Emergency Other: _____	<input type="checkbox"/> Permanent <input type="checkbox"/> Seasonal <input type="checkbox"/> Emergency Other: _____	<input type="checkbox"/> Permanent <input type="checkbox"/> Seasonal <input type="checkbox"/> Emergency Other: _____
Redundant Equipment?	<input type="checkbox"/> Yes <input type="checkbox"/> No Explain: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No Explain: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No Explain: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No Explain: _____
Backup power?	<input type="checkbox"/> Yes <input type="checkbox"/> No Explain: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No Explain: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No Explain: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No Explain: _____

Groundwater and Consecutive Systems
UV Disinfection

Yes No

- ☐ ☐ Is there a flow meter to monitor/alarm or a flow restrictor valve so the max flow rate is not exceeded? Describe how the system ensures the flow does not exceed max flow rate: _____
- ☐ ☐ Is there an intensity sensor and alarm (visible/audible) to indicate low intensity?
- ☐ ☐ Is there a UV lamp status alarm (visible/audible) to indicate lamps off?
- ☐ ☐ Is there a UV lamp age counter/alarm?
- ☐ ☐ Is there an automatic shut-off fail-safe solenoid valve so that water does not flow through the unit without adequate treatment?
- ☐ ☐ Are there spare bulbs on hand?

How often are the unit cleaned and the bulbs changed? _____

Point of use Treatment

For PWSs with required Point of Use (POU) treatment, ask the operator –

Yes No NA

- ☐ ☐ ☐ Is the system adhering to the O&M Plan approved by EPA and conducting maintenance per the manufacturer's recommendations?
(i.e. Is the operator replacing POU filters in accordance with the maintenance plan or manufacturer recommendations).
- ☐ ☐ ☐ Is the system following its EPA-approved POU sampling plan?

If No, explain any difficulties: _____

Comments: _____

WATER TREATMENT DATA SURFACE WATER / GWUDISW SYSTEMS

☐ NA

General Information

For each treatment plant indicated on the overall PWS schematic, update the separate treatment plant schematic. Show all treatment processes, recycle streams, turbidimeter locations, raw water and finished water sampling points, and disinfectant residual sampling points.

In this section, the * symbol indicates a potential violation to be determined by the EPA Rule Manager

Plant Location and Information

Plant / Office Location and Directions: _____

Date plant put online: _____

Modifications since the last survey? (if yes, describe): _____

Describe water sources treated by this plant: _____

Is treatment impacted by algae (describe)? _____

Plant Output (gal / day)

Design: _____

Summer Average: _____

Winter Average: _____

Maximum: _____

Provide a brief description of the plant's treatment processes: _____

Indicate all points in the treatment process where flow is determined and describe how (i.e. flowmeters, flow restrictors, valves, etc): _____

Please indicate all of the treatment plant waste disposal methods the plant currently employs:

- ☐ Discharge to surface, sewer, or equivalent. Please describe: _____
- ☐ On-site disposal. Please describe: _____
- ☐ Land application
- ☐ Discharge to lagoon/drying bed, with no recovery/recycling – e.g., downstream outfall
- ☐ Backwash recovery/recycling: discharge to basin or lagoon and then to source
- ☐ Backwash recovery/recycling: discharge to basin or lagoon and then to plant intake
- ☐ Other. Please describe: _____
- ☐ No wastes generated

Pre-Filtration Processes

Pre-Sed Basin: ☐ Yes ☐ No

Describe Type and indicate volume: _____

Chemicals added: ☐ Yes ☐ No (If yes, input chemical information in table below)

Rapid Mix: ☐ Yes ☐ No

Describe Type: _____

Chemicals added: ☐ Yes ☐ No (If yes, input chemical information in table below)

Flocculation: ☐ Yes ☐ No

Describe Type: _____

Chemicals added: ☐ Yes ☐ No (If yes, input chemical information in table below)

Sedimentation: ☐ Yes ☐ No

Describe Type: _____

Chemicals added: ☐ Yes ☐ No (If yes, input chemical information in table below)

Other: ☐ Yes ☐ No

Describe: _____

Chemicals added: ☐ Yes ☐ No (If yes, input chemical information in table below)

Chemical Information (ask system to provide information from chemical supplier / manufacturer):

Manufacturer	Product Name	Location Chemical Added	Max Dose Used (past 12 months):	NSF 60 Certified?	NSF 60 Max Allowable Dose
_____	_____	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____
_____	_____	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____
_____	_____	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____
_____	_____	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____
_____	_____	_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____

NSF 60 certification and max. allowable dose info. can be found at: <http://info.nsf.org/Certified/PwsChemicals/>

Does the system use a chemical containing epichlorohydrin or polyacrylamide that is dosed in excess of the NSF 60 Max Allowable Dose? ¥

☐ Yes ☐ No

Filtration Processes

General

Indicate all types of filtration used:

- ☐ Conventional ☐ Bags / Cartridges ☐ Slow Sand
☐ Direct ☐ Membranes ☐ Diatomaceous Earth

Which is the final filtration barrier?: _____

Type and model # of combined filter effluent (CFE) turbidimeter: _____

Location of CFE turbidimeter: _____

Frequency of all turbidimeter calibration(s): _____

Date(s) of last turbidimeter calibration(s) for all turbidimeters: _____

Method used for all calibrations (primary formazin standard or other)? _____

Yes No

- ☐ ☐ Does the location of the CFE turbidimeter comply with EPA policy SWTR #5? @
☐ ☐ Are turbidimeters calibrated at least once every quarter? @
☐ ☐ Does the system use a primary standard to perform the calibration? @
☐ ☐ Are CFE turbidity records available for the last 5 years? ¥
☐ ☐ Can CFE turbidities be recorded up to 5 NTU? @ How high can they be recorded: _____
☐ ☐ Can turbidities associated with off-periods (backwash, FTW) be identified so they are not counted for compliance? (if applicable) @

Finished water CFE turbidity (NTU): PWS measurement: _____ Surveyor measurement: _____

Conventional and Direct Filtration

Filter Information

of filters: _____

Type of filters:

- ☐ open to atmosphere ☐ enclosed (pressure)

Manufacturer name & model (if applicable): _____

Depth of each media (in):

Sand: _____ Anthracite: _____ Garnet: _____

Total at least 24"? @ Yes ☐ No ☐

Has operator observed loss of media? _____

Has the operator inspected the media for mudball formation? _____

Average length of filter run (hours): _____

Maximum filter loading rate (gpm/ft²): _____

Is the filtration rate less than 2 gpm/sf (mono-media), 4 gpm/sf (dual media) or 6 gpm/sf (deep bed)? @

- ☐ Yes ☐ No

Backwash Information

What determines when backwash occurs? _____

Backwash rate (gpm/ft²): _____

What is used for a backwash?

- ☐ Air scour ☐ finished water ☐ raw water @

Yes No

- ☐ ☐ System starts up with clean filters (if not running 24/7)
☐ ☐ System performs filter to waste (FTW) before putting filters back on line.

Conventional and Direct IFE and CFE additional information (only if final barrier)

IFE Questions

How are IFE records maintained? ☐ SCADA ☐ strip chart ☐ circular chart

Yes No

- ☐ ☐ Does each filter have an individual effluent (IFE) turbidimeter? ¥ Types and model #s: _____
- ☐ ☐ Are there alarms on each filter? Alarm set point (NTU): _____
- ☐ ☐ Are IFE turbidities measured continuously, and recorded at least every 15 Minutes? ¥
- ☐ ☐ Is IFE turbidity recorder (SCADA or charts) calibrated to record turbidities ≥ 2 NTU? @
- ☐ ☐ Are IFE records kept for the last 3 years (as applicable)? ¥
- ☐ ☐ Did any single filter IFE exceed 1.0 NTU in 2 consecutive 15 minute readings during the last 12 months? If yes, Indicate dates of all occurrences and copy those records. _____
- ☐ ☐ a. If so, did they report to EPA and do a filter profile, if required? ¥
- ☐ ☐ b. If this occurred 3 months in a row, did they conduct a filter self-assessment? ¥
- ☐ ☐ Did any single filter IFE exceed 2.0 NTU in 2 consecutive 15 minute readings in the last 12 months? Indicate dates of all occurrences and copy those records. _____
- ☐ ☐ a. If this occurred 2 months in a row for the same filter, did they report to EPA and have a CPE performed? ¥
- ☐ ☐ For systems serving $\geq 10,000$, did the IFE of any filter exceed 0.5 NTU in 2 consecutive 15 minute readings after being online 4 hours (following backwash or other reason offline) in the last 12 months? Indicate dates of all occurrences and copy those records.
- ☐ ☐ a. If so, did they report to EPA and do a filter profile, if required? ¥

CFE Questions

How are CFE records maintained? ☐ SCADA ☐ strip chart ☐ circular chart

Yes No

- ☐ ☐ Based on these records, has the system consistently met the CFE turbidity requirements for this type of filtration during the last 12 months? ¥ (0.3 NTU 95% of each month, 1 NTU max) If no, indicate date of all occurrences and copy those records: _____

Log removal credited for this type of filtration barrier for: *Giardia*: _____ *Viruses*: _____ *Cryptosporidium*: _____

Conventional and Direct (only if filter backwash, thickener supernatant, or sludge dewatering liquid is recycled)

Describe where recycle enters treatment process: _____

Yes No

- ☐ ☐ Is recycle location before the TOC monitoring point?
- ☐ ☐ Are records of recycle practices kept in an acceptable format for each year that includes all of the required elements (e.g., avg and max times/flows of backwashes; recycle treatment/equalization [chemical addition; hydraulic loading rates])? ¥

Membranes

Number of membrane skids: _____ Configuration: ☐ parallel ☐ series
Membrane type: ☐ microfiltration ☐ ultrafiltration ☐ nanofiltration ☐ RO
Manufacturer: _____ Model #: _____ Absolute pore size: _____
Each skid capacity (gpm): _____

Yes No

☐ ☐ Has the PWS consistently been meeting the CFE turbidity requirements for this type of filtration? (0.3 NTU 95% of each month, 1 NTU max) ✖

☐ ☐ Are direct integrity tests (DIT) performed at least daily (specify ☐ pressure or ☐ vacuum applied)? ✖ If yes, how often? ✖ _____

☐ ☐ For continuous indirect integrity testing, does each unit/skid have its own online turbidimeter? ✖

☐ ☐ a. Is filtrate turbidity monitored continuously and recorded at least once every 15 minutes? ✖

☐ ☐ b. Is it set with a trigger level of 0.15 NTU for > 15 minutes (a DIT should be initiated when filtrate turbidity exceeds this level)? ✖

☐ ☐ Do operators know how to check and repair membranes when a DIT fails? @

How/when are membranes cleaned? _____

Are spare membrane cassettes available? ☐ Yes ☐ No

Is there adequate storage of cleaning chemicals in case of emergency weather? _____

Log removal credited for this type of filtration barrier for: *Giardia*: _____ Viruses: _____ Cryptosporidium: _____

Bags / Cartridges

Number of parallel filter trains: _____ Each train capacity (gpm): _____

Pre Filter (if applicable)

Housing: _____ Manufacturer: _____ Model: _____

Bag / Cartridge Filter: Manufacturer: _____ Model: _____ # per housing: _____

Final Filter

Housing: _____ Manufacturer: _____ Model: _____

Bag / Cartridge Filter: Manufacturer: _____ Model: _____ # per housing: _____

Manufacturer's recommended maximum flow rate (gpm): _____

Pore size rating (microns - indicate absolute or nominal): _____

Replacement frequency of all filters: _____

Yes No

☐ ☐ Has the PWS consistently been meeting the CFE turbidity requirements for this type of filtration? (1 NTU 95% of each month, 5 NTU max) ✖

☐ ☐ Are there working pressure gauges before and after filters? @

☐ ☐ Does the PWS keep daily records of monitoring the pressure drop across the filters, and know when to change out filters? @

☐ ☐ Has the final filter or pre/final filter combination been demonstrated to remove at least 99.9% of *Cryptosporidium* or equivalent size particles or have a 1 or 2 micron absolute pore size rating? (leave blank if unknown) @

☐ ☐ Does the flow rate through the final filter exceed the manufacturer's maximum recommended flow rate? @

Log removal credited for this type of filtration barrier for: *Giardia*: _____ Viruses: _____ Cryptosporidium: _____

Diatomaceous Earth Filters

Number of filters: _____	<input type="checkbox"/> Pressure System	<input type="checkbox"/> Vacuum System
Filter manufacturer/model # (if applicable): _____		
Each filter capacity (gpm): _____		
Describe pre-coat and body feed systems: _____		
Has the PWS consistently been meeting the CFE turbidity requirements for this type of filtration? (1 NTU 95% of each month, 5 NTU max) ¥ <input type="checkbox"/> Yes <input type="checkbox"/> No		
Describe precoat and body feed systems: _____		
Maximum filter loading rate (gpm/ft ²): _____		
Is the filtration rate less than 1.5 gpm/sf? @ <input type="checkbox"/> Yes <input type="checkbox"/> No		
Maximum head loss allowed: _____		
What determines when backwash occurs? <input type="checkbox"/> time <input type="checkbox"/> turbidity <input type="checkbox"/> automatic <input type="checkbox"/> head loss		
Log removal credited for this type of filtration barrier for: <i>Giardia</i> : _____ Viruses: _____ Cryptosporidium: _____		

Slow Sand Filtration

Number of filters: _____	Each Filter capacity (gpm): _____
What is rate of filtration (gpm/ft)? _____	
Is the filtration rate less than 0.1 gpm/sf? @ <input type="checkbox"/> Yes <input type="checkbox"/> No	
Yes	No
<input type="checkbox"/>	<input type="checkbox"/> Has the PWS consistently been meeting the CFE turbidity requirements for this type of filtration? (1 NTU 95% of each month, 5 NTU max) ¥
<input type="checkbox"/>	<input type="checkbox"/> Is turbidity of raw water to filters always <10 NTU? @
<input type="checkbox"/>	<input type="checkbox"/> Is water depth over sand at least 3 feet during operation? @
<input type="checkbox"/>	<input type="checkbox"/> Can plant meet design capacity with one unit out of service?
<input type="checkbox"/>	<input type="checkbox"/> Do they ripen after scraping (filter to waste) and how long?
<input type="checkbox"/>	<input type="checkbox"/> Is head loss across filters monitored and used for process control? @ If yes, how is the head loss monitored? _____
How often is each unit scraped? _____	
Log removal credited for this type of filtration barrier for: <i>Giardia</i> : _____ Viruses: _____ Cryptosporidium: _____	

Disinfection Processes

General

Describe all inactivation processes, **both pre-filtration and post-filtration**: _____

UV Disinfection

Point of application: _____ UV manufacturer/model #: _____

Validated maximum flow (gpm): _____ Validated UV dosage (mJ/cm²): _____

Log inactivation credited based upon validated dosage (use table below): *Giardia*: _____ *Cryptosporidium*: _____

Table 1. UV Dose Requirements in Millijoules per Square Centimeter (mJ/cm²)

Target Pathogen	Log Inactivation							
	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0
<i>Cryptosporidium</i>	1.6	2.5	3.9	5.8	8.5	12	15	22
<i>Giardia</i>	1.5	2.1	3.0	5.2	7.7	11	15	22
Viruses	**	**	**	**	**	**	**	**

Source: 40 CFR 141.720(d)

** UV not credited with virus inactivation by EPA R8 for SW/GU systems

Yes No

- ☐ ☐ Does PWS keep records of UV reports sent monthly to EPA? ¥
- ☐ ☐ Does public water system's Emergency Response Plan address breakage of UV lamps? (Mercury hazard: OSHA guidelines 1910 Subparts H, I, Z, Response to breakage, Cleanup and disposal)

UV Disinfection – less than 40 gpm

Yes No

- ☐ ☐ Is there a flow meter to monitor/alarm or a flow restrictor valve so the max flow rate is not exceeded? @ Describe how the system ensures the flow does not exceed max flow rate: _____
- ☐ ☐ Is there an intensity sensor and alarm (visible/audible) to indicate low intensity? @
- ☐ ☐ Is there a UV lamp status alarm (visible/audible) to indicate lamps off? @
- ☐ ☐ Is there a UV lamp age counter/alarm? @
- ☐ ☐ Is there an automatic shut-off fail-safe solenoid valve so that water does not flow through the unit without adequate treatment? @
- ☐ ☐ Does this UV unit have an NSF Standard 55A Certification or has it been validated according to the requirements of the 2006 UV Disinfection Guidance Manual? ¥ (leave blank if unknown)
- ☐ ☐ Are there spare bulbs on hand?

How often is the unit cleaned and the bulbs changed? _____

UV Disinfection – greater than 40 gpm

How is unit monitored? ☐ Intensity Setpoint Method ☐ Calculated Dose Method

Yes No

- ☐ ☐ Is the calibration of the UV intensity sensors checked at least monthly using a reference sensor? @ How frequently are calibration checks performed? _____
- ☐ ☐ Is the calibration of the UV transmittance analyzer checked at least weekly with a benchtop analyzer (Calculated Dose Method only)? @ How frequently are calibration checks performed? _____
- ☐ ☐ Is there a calibrated flowmeter to ensure max flow rate is not exceeded? @
- ☐ ☐ Are daily operational records kept of flow rates/production, run time, lamp status, UV intensity, UVT and UV dosage? ¥ (These should be monitored continuously and recorded at least once/4 hours. Small systems (less than 500 population) are allowed to record one time each day.)
- ☐ ☐ Does the operator know how to identify an off-specification event and report it to the EPA? @
- ☐ ☐ Does the system alarm when an off-specification event occurs? @
- ☐ ☐ Are there spare bulbs on hand?

Chemical Disinfection

Chlorine and Chloramines

Type: _____ Dosage: _____ (lb / day or mg/L) NSF 60 Certified? ☐ Yes ☐ No

Point of application: _____

Where does the PWS measure disinfectant residual for compliance with the SWTR requirement of ≥ 0.2 mg/L at the POE? _____

Is this before the 1st user of the water? ¥ ☐ Yes ☐ No

How is residual measured? ☐ continuous ☐ grab Equipment / manufacturer model #: _____

What type of measurement is taken? ☐ free ☐ total (systems that use chloramination must measure total)

Chlorine residual at POE (mg/L): PWS measurement: _____ Surveyor measurement: _____

Are the two measurements within 0.1 mg/L or 15% of one another (whichever is larger)? @ ☐ Yes ☐ No

Yes No

- ☐ ☐ Is there redundant disinfection equipment?
- ☐ ☐ Is there emergency power for the disinfection equipment?
- ☐ ☐ If measuring residual continuously, is the PWS conducting weekly verifications with a grab sample measurement? @

Ozone

Number of Ozone generators: _____ Percent ozone being generated (%): _____

Where is the ozone applied? _____ Where is residual measured? _____

Ozone residual (%): _____ Ozone residual (mg/L): _____

Describe the purpose of the ozone addition: _____

Are all applicable residual monitors operational? _____

Are excess ozone destructors operational? _____

Is there a preventive maintenance program for the generators? _____

Is a SCBA or supplied-air respirator available for the operators when working with ozone? _____

Are operators exposed to ozone levels above 0.1 mg/L? _____

Does the system monitor bromate concentration at point of entry? ¥ ☐ Yes ☐ No

Chlorine Dioxide

Number of Chlorine Dioxide generators: _____
 Where is the Chlorine Dioxide applied? _____ Where is Chlorine Dioxide residual measured? _____
 Chlorine Dioxide residual (mg/L): _____
 Describe the purpose of the Chlorine Dioxide addition: _____
 Are all applicable residual monitors operational? _____
 Is there a preventive maintenance program for the generators? _____
 Are operators exposed to Chlorine Dioxide levels above 0.1 ppm? _____

Yes No

- ☐ ☐ Does the system monitor chlorine dioxide daily at point of entry? ¥
☐ ☐ Does the system monitor chlorite at point of entry daily and monthly in the distribution system? ¥

Chemical Disinfection – Inactivation Calculations

If the PWS performs ongoing daily or weekly CT calculations, use their actual data to document inactivation in the section below. Otherwise, do a conservative calculation for each inactivation segment.

Identify location of 1st user: _____

Summer Calculations

Lowest* disinfectant residual and where measured (mg/L): _____
 Water temperature (lowest*): _____ °C
 Water pH (highest*): _____
 Maximum* flow through segment: _____ gpm
 Describe each segment and list appropriate baffling factor: _____

List the volume of each segment using minimum* operating heights of tanks: _____

Total logs *Giardia* inactivation from all chemical disinfection segments: _____

Total logs virus inactivation from all chemical disinfection segments: _____

Winter Calculations

Lowest* disinfectant residual and where measured (mg/L): _____
 Water temperature (lowest*): _____ °C
 Water pH (highest*): _____
 Maximum* flow through segment: _____ gpm
 Describe each segment and list appropriate baffling factor: _____

List the volume of each segment using minimum* operating height of tanks: _____

Total logs *Giardia* inactivation from all chemical disinfection segments: _____

Total logs virus inactivation from all chemical disinfection segments: _____

* Use data from system's ongoing CT calculations if available. Values should correlate to the system's lowest calculated inactivation levels during the specified season in the previous year.

Chemical Disinfection – Disinfection Profiling (if system is exempt, skip section)

Yes No

- ☐ ☐ Does the system have a disinfection profile on site that contains a year of weekly log inactivation calculations (<10,000 pop.) or a year of daily log inactivation calculations (>10,000 pop)? @
☐ ☐ Did the PWS make a significant change (new disinfectant; new location; etc.) to disinfection practices after 7/1/03 or 1/1/04?
☐ ☐ If yes, was EPA consulted? Describe the change and date made: ¥ _____

When was the profile conducted? _____ to _____

Lowest monthly average log inactivation observed from the profile (month/value): *Giardia*: _____ *Viruses*: _____

Overall Inactivation / Removal Calculations

Viruses / Giardia

Viruses	Giardia
____ Logs Removal (filtration)	____ Logs Removal (filtration)
____ Logs chemical inactivation (lowest value from Summer / Winter calculations)	____ Logs chemical inactivation (lowest value from Summer / Winter calculations)
____ Logs UV inactivation	____ Logs UV inactivation
____ Logs other removal or inactivation	____ Logs other removal or inactivation
____ Total logs inactivation / removal	____ Total logs inactivation / removal
≥ 4 logs? @ <input type="checkbox"/> Yes <input type="checkbox"/> No	≥ 3 logs? @ <input type="checkbox"/> Yes <input type="checkbox"/> No

Cryptosporidium

Committed to install maximum treatment? <input type="checkbox"/> Yes <input type="checkbox"/> No
If no, what is the system's bin #? <input type="checkbox"/> Bin #1 <input type="checkbox"/> Bin #2 <input type="checkbox"/> Bin #3 <input type="checkbox"/> Bin #4
System Classification: <input type="checkbox"/> Filtered <input type="checkbox"/> Unfiltered
*If system completed sampling and was classified as a Bin #1 system, the section below does not need to be completed. For all other systems, please complete the section below.
Total logs Cryptosporidium inactivation / removal required based on max treatment, bin # or classification: _____
Date treatment required by: _____ Toolbox Components Utilized: _____
____ Logs Removal (filtration)
____ Logs chemical inactivation
____ Logs UV inactivation
____ Logs other Toolbox Components
____ Total logs inactivation / removal
≥ required logs? ¥ <input type="checkbox"/> Yes <input type="checkbox"/> No

WATER TREATMENT DATA (FOR ALL SYSTEMS) CORROSION CONTROL

Does this PWS add chemicals for corrosion control? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Comments: _____			
Chemical added:	NSF 60 Certified?	Dosage at Treatment Plant	Added Continuously or Seasonally
_____	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____	<input type="checkbox"/> Continuously <input type="checkbox"/> Seasonally
_____	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____	<input type="checkbox"/> Continuously <input type="checkbox"/> Seasonally
_____	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____	<input type="checkbox"/> Continuously <input type="checkbox"/> Seasonally
_____	<input type="checkbox"/> Yes <input type="checkbox"/> No	_____	<input type="checkbox"/> Continuously <input type="checkbox"/> Seasonally
Do you monitor corrosion control treatment chemical concentrations, pH or any other water quality parameters at the entry point to the distribution system or at customer taps to evaluate the process? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Comments: _____			

DISTRIBUTION DATA

Please provide a brief description of the distribution system, including source to use piping: _____		
What are the location and estimated linear feet of asbestos pipe in the distribution system? _____		
Have lines broken due to freezing? <input type="checkbox"/> Yes <input type="checkbox"/> No _____		
Have lines broken due to traffic load? <input type="checkbox"/> Yes <input type="checkbox"/> No _____		
Are lines properly disinfected after repairs are made? @ <input type="checkbox"/> Yes <input type="checkbox"/> No _____		
Is there at least 35 psi pressure in the distribution system at peak normal flow? <input type="checkbox"/> Yes <input type="checkbox"/> No _____		
Is there at least 20 psi at all points in the system at all times? @ <input type="checkbox"/> Yes <input type="checkbox"/> No _____		
For systems that provide water storage: Total number of days of storage (Summer)? _____ Total number of days of storage (Winter)? _____ <div style="text-align: center; margin-top: 10px;"> Yes No NA </div> Is the storage capacity adequate to meet current needs? <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Is the storage capacity adequate to meet future needs? <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Comments: _____		
Are there any bulk water supply/fill stations attached to this system? <input type="checkbox"/> Yes <input type="checkbox"/> No _____ (note to surveyor: if yes, check each facility, note its condition and provide photos)		
Station name (if applicable)	Location	Appropriate Air Gap or RPZ?
_____	_____	<input type="checkbox"/> Air Gap <input type="checkbox"/> RPZ <input type="checkbox"/> Neither @
_____	_____	<input type="checkbox"/> Air Gap <input type="checkbox"/> RPZ <input type="checkbox"/> Neither @
_____	_____	<input type="checkbox"/> Air Gap <input type="checkbox"/> RPZ <input type="checkbox"/> Neither @
Comments: _____		
Are there any air relief valves in vaults/pits located in the distribution system? <input type="checkbox"/> Yes <input type="checkbox"/> No _____ Note to surveyor: If yes, inspect one representative ARV, note its condition and provide photos Are they regularly inspected and maintained? <input type="checkbox"/> Yes <input type="checkbox"/> No _____ Do any have leaks and/or standing water that covers the discharge point? @ <input type="checkbox"/> Yes <input type="checkbox"/> No _____		
Location, length, number, and flushing frequency for dead ends in the system: _____		
Are distribution system ("as-built") drawings maintained (e.g., revised to show replacement or repair?) <input type="checkbox"/> Yes <input type="checkbox"/> No _____		
For systems that add a chemical disinfectant or receive disinfected water from a wholesaler: NA <input type="checkbox"/> Yes No <input type="checkbox"/> <input type="checkbox"/> Is test equipment available for measuring the chlorine residual in the distribution system? Describe equipment: _____ <input type="checkbox"/> <input type="checkbox"/> Are reagents up to date? _____ <input type="checkbox"/> <input type="checkbox"/> Does the operator know how to properly measure chlorine residual? _____ Measured chlorine residual distribution system location: _____ Indicate residual value measured at this distribution system location: By Surveyor: _____ (mg/L) By PWS: _____ (mg/L) Indicate if free or total chlorine was measured: _____ It is recommended that a minimum residual of 0.5 mg/L total chlorine or 0.2 mg/L free chlorine be maintained.		

CROSS CONNECTION CONTROL

Yes	No	NA	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Does each severe hazard connection have the appropriate reduced pressure backflow assembly installed at the meter/service connection and approved air gap (twice the size of the supply pipe diameter but always greater than one inch)? Describe each severe hazard connection and its location. @ _____</p> <p>Note: Severe hazard connections include radioactive materials processors, nuclear reactors, and sewage treatment plants/pump stations.</p>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Does each high hazard connection in the <u>treatment plant</u> or <u>distribution system</u> have the appropriate air gap or reduced pressure backflow assembly installed? Describe each high hazard connection and its location. @ _____</p> <p>Note: High hazard connections include hospitals, medical/dental facilities, laboratories, mortuaries, large taxidermies, chemical suppliers/processing facilities, petroleum plants, food processing facilities, wastewater treatment plants, and docks, car washes, dry cleaners, direct connections to raw or non-potable water, and any service connection with an unapproved auxiliary supply.</p>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Do trailers or mobile homes connected directly to the PWS via a yard hydrant have a residential dual check valve at each connection? _____</p>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Are any frost-free hydrants that drain into the soil directly connected to this PWS? _____</p>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Are there any leaking system components in the water system observed by the surveyor that are not previously noted? @ _____</p> <p>Explain where and what was leaking: _____</p>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>At Community PWS, do all low hazard connections have the appropriate dual check valve assemblies installed at the meter or service connection? _____</p> <p>Note: Low hazard connections include mobile home parks, farms/dairies, ranches, and shopping centers.</p>
<p>For Non-community Systems, do the following connections have the indicated type of backflow prevention assemblies?</p>			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>- Stock tanks – approved air gap or atmospheric vacuum breaker at the tank? @ _____</p>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>- Threaded yard hydrants – pressure vacuum breaker, atmospheric vacuum breaker or double check valve assembly? _____</p>
<p>Does the water supplier have a record keeping program and management procedures to ensure:</p>			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>- The installation and certification by test or inspection (as applicable) of all backflow preventers (BFPs) at new service connections _____</p>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>- The annual certification by a certified tester of all high-hazard BFPs at service connections. _____</p>

SAFETY

Personnel Safety			
Yes	No	NA	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are all personnel trained in proper handling of all utilized chemicals and materials? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are adequate masks, protective clothing, and safety equipment provided? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does the operator understand relevant Occupational Safety and Health Administration (OSHA) regulations (e.g., confined space, hazard communication, trenching/shoring, lock out/tag out)? _____
Chlorine Gas Safety NA <input type="checkbox"/>			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are there chlorine warnings posted on the outside of chlorine room doors? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	- Do the doors open outward? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	- Do they open to the exterior of the building? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	- Are chlorine room doors equipped with crash bars? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	- Are chlorine room doors equipped with viewports? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is there a leak detector in the chlorine room with an audible alarm? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are chlorine feed and storage areas isolated from other facilities? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are chlorine areas adequately ventilated? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are all chlorine cylinders adequately restrained? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are self-contained breathing apparatus (SCBA) available for use in chlorine emergencies? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	- Are they in good working condition? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	- Are water system personnel adequately trained in the use and maintenance of the SCBA? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	- Where are the SCBA stored? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are chlorine leak kits available and are all personnel trained in their proper use? _____
Chemical Safety NA <input type="checkbox"/>			
Yes	No	NA	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are oxidizers, corrosives, and flammables stored in separate areas and in closed, marked containers? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are flammables stored in appropriate containers and cabinets away from combustion sources? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is there adequate ventilation in the areas where solvents, aerosols, and chemical feeders are in use? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are bulk storage areas physically isolated from treatment areas to prevent spills from entering treated or untreated water? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is the fire department familiar with the facilities and their contents? _____

MANAGEMENT DATA

Yes	No	NA	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are there rules governing new hookups to protect the integrity of this water system? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are DEQ construction standards followed? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is the treatment plant being properly operated to prevent inadequately treated water from being sent to the distribution system? @ _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does the system have arrangements in place to assure prompt supply and repair service? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does the system have a current operations and maintenance manual which describes all procedures, equipment, sampling schedules and inspection data? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is there a schedule for routine preventative maintenance for all facilities and equipment? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does the system (treatment plant, finished water storage) have security measures in place (fencing, locks, lighting, alarms, etc.)? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does the system have an emergency response plan (ERP) – system does not need to show the surveyor the ERP --that includes: @ _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	- Emergency contact phone numbers? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	- Procedures to respond to a pressure loss/water outage? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	- Procedures to respond to a water contamination incident? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	- Is the ERP accessible to the operator on-site? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is the system part of the state's WARN network? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Have you evaluated possible impacts to your system from extreme weather events? If yes, what was the outcome? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are you interested in training on extreme weather events? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Have you evaluated your facilities to see if they are in the 100 and 500 year flood plains? _____ If yes, what was the outcome? _____
What percentage of the utility's power comes from your own renewable energy sources? _____			
% wind: _____ % solar: _____ % hydro: _____			

MONITORING AND RECORDS

Revised Total Coliform Rule (RTCR) monitoring (all systems)			
Yes	No		
<input type="checkbox"/>	<input type="checkbox"/>	Does the operator know how to collect samples for total coliform analysis? (Review operator sampling procedure at time of survey to confirm) _____	
<input type="checkbox"/>	<input type="checkbox"/>	Does the operator know what to do in the event of a total coliform "unsafe" result? _____ They will need to take 3 repeat samples under the RTCR utilizing the regular lab form:	
For an explanation go to the EPA Region 8 Drinking Water Online website (http://www.epa.gov/region8-waterops) <ul style="list-style-type: none"> - "click" on Revised Total Coliform Rule (RTCR) (under Regulations and Compliance) - "click" on Tech Tip: TC+ Follow Up (in green box) - Follow the 5 steps described in the Tech Tip for follow up sampling after a TC+ sample 			
<input type="checkbox"/>	<input type="checkbox"/>	Are extra bottles available in case of need for repeat coliform sampling? _____	
<input type="checkbox"/>	<input type="checkbox"/>	Does the system have an RTCR sampling plan on file and available for the surveyor's review? _____	
<input type="checkbox"/>	<input type="checkbox"/>	Ask the operator - Is the system following their RTCR sampling plan? If No, explain any difficulties _____	
If subject to the Ground Water Rule (GWR), does the operator know:			NA <input type="checkbox"/>
Yes	No	NA	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Within 24 hours of being notified of a <i>routine coliform</i> positive sample result, they must collect one triggered source water sample for every routine coliform positive sample at each active ground water source (e.g., three routine coliform positive samples requires the operator to collect three source water samples from <i>each</i> ground water source)? _____
They will need to submit:			
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	- Source water sample results utilizing the triggered Ground Water Source Sampling Form located on the Drinking Water Online site (http://www.epa.gov/region8-waterops)? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Where to sample if they are required to sample all of their active ground water sources? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are extra bottles available in case of the need for GWR source sampling? _____
For Community and NTNC systems (including consecutives):			NA <input type="checkbox"/>
Yes	No	NA	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is there a Disinfection Byproducts Rule Monitoring Plan on-site available for the surveyor's review? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	- Is it up-to-date reflecting the current distribution system? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	- In the last 5 years, have water mains been extended to new service areas? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	- If Yes, did the total amount of new water mains exceed 2500 feet? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does the system have a Lead & Copper Tap Sample Site Plan on site and available for the surveyor's review? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	- Is it up to date? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	- Ask the operator - Is the system following their LCR Tap Sample Site Plan? If No, explain any difficulties _____
For All Systems:			
Yes	No	NA	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does the operator know the location of each entry point to the distribution system? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Does the operator know how to properly label samples taken from the entry points? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Has the PWS completed the monitoring that is specified in the EPA-provided monitoring schedule so far for this calendar year? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Are copies of all monitoring results filed and readily accessible? _____
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is the operator familiar with the Drinking Water Online (http://www.epa.gov/region8-waterops) and Drinking Water Watch (https://sdwrs8.epa.gov/Region8DWWW/JSP/loginForm.jsp) websites created for their benefit? _____

Environmental Protection Agency Region VIII
1595 Wynkoop Street (8P-W-DW)
Denver, Colorado 80202-2466

2017 Assessment of Ground Water Under the Direct Influence of Surface Water (GWUDISW)

(ONLY the first page is to be completed by surveyor;

FILL OUT unless this source is fully treated in a surface water treatment plant)

Public Water System Name: _____ PWS#: _____
Well/Spring/Infiltration Gallery Name: Beartooth Campground #1 County: _____
WY SEO Permit #: _____ WY DEQ Construction Permit #: _____
Date of Assessment: _____ Field Assessor: _____

	<u>Index Points</u>	<u>Score*</u>
A TYPE OF SUBSURFACE WATER SOURCE (Highlight or Circle One)		
Spring	10	
Infiltration Gallery more than 2 ft. deep	10	
Infiltration Gallery at or less than 2 ft. deep	25	
B HYDROGEOLOGICAL FEATURES (Highlight or Circle)		
Surface runoff drains toward well, spring or infiltration gallery	15	
C STRUCTURAL FEATURES (Highlight or Circle)		
<u>WELLS</u> (includes wells collecting water from infiltration galleries)		
Uncased or Unsealed (lacking annular seal) Well	40	
Lack of watertight sanitary seal on well cap (including lack of watertight bolt holes, watertight pump support openings, watertight electrical cable openings, etc.)	15	
Well height not properly terminated (well, including the pitless adapter units, does not terminate a minimum of 18 inches above the final ground level, 12 inches above the pump house floor or 3 feet above the highest known flood elevation, whichever is higher. Measurements should be taken from the pump house floor, not the bottom of a pit which may be located within the pump house)	15	
<u>SPRING COLLECTION BOX</u> (includes collection vaults collecting water from infiltration galleries)		
Deep-rooted vegetation (e.g. trees, shrubs) around spring box, providing conduit for surface water into spring water	15	
Spring box is not watertight, with overlapping lid or cover	15	
Overflows or drains open to atmosphere or allow entrance of animals (unscreened)	15	
Marshy (standing water) around spring collection area	30	

GWUDISW Assessment, Continued (p. 2)
(Second page to be completed by EPA Region VIII)

PWSID #: _____ Date: _____ EPA Assessor: _____

		<u>Index Points</u>	<u>Score*</u>
D	TYPE OF SUBSURFACE WATER SOURCE (Highlight or Circle one)		
	Well, with depth to first screen or perforation equal to or greater than 50 feet	0	
	Well, with depth to first screen or perforation equal to or less than 50 feet	5	
E	HISTORICAL MICROBIOLOGICAL CONTAMINATION (Highlight or Circle)		
	History or suspected outbreak of Giardia or other pathogenic organisms associated with surface water with current system configuration	50	
	Record of Total Coliform (TC+) acute MCL violations over the last 3 years (these violations will be reported as "MCL (TCR), ACUTE)	30	
	Ground Water Rule triggered Source sample(s) over the last 3 years.		
	TC+ in source water: 1 TC+	20	
	2 TC+	25	
	3 TC+	30	
	e. Coli+ in source water	40	
	Regulatory agency verifies complaints about turbidity or suspected waterborne disease	10	
F	HYDROGEOLOGICAL FEATURES (Highlight or Circle)		
	Distance between a surface water source and the groundwater collector (vertical well, spring box or infiltration gallery)		
	Over 200 ft.	0	
	100 – 200 ft.	5	
	Less than 100 ft.	10	
	Well, spring or infiltration gallery located on floodplain at approximate altitude of stream	20	
	Source aquifer that is unconsolidated, cavernous, or fractured	15	

TOTAL SCORE ()**

(*) assign appropriate points even if the issue is not identified as a significant deficiency in the survey report

(**) total score of greater than or equal to 40 indicates further assessment is needed

COMMENTS:

ADDITIONAL NOTES

Environmental Protection Agency Region VIII
1595 Wynkoop Street (8P-W-DW)
Denver, Colorado 80202-2466

2017 Assessment of Ground Water Under the Direct Influence of Surface Water (GWUDISW)

(ONLY the first page is to be completed by surveyor;

FILL OUT unless this source is fully treated in a surface water treatment plant)

Public Water System Name: _____ PWS#: _____
Well/Spring/Infiltration Gallery Name: Bearthooth Campground #2 County: _____
WY SEO Permit #: _____ WY DEQ Construction Permit #: _____
Date of Assessment: _____ Field Assessor: _____

	<u>Index Points</u>	<u>Score*</u>
A TYPE OF SUBSURFACE WATER SOURCE (Highlight or Circle One)		
Spring	10	
Infiltration Gallery more than 2 ft. deep	10	
Infiltration Gallery at or less than 2 ft. deep	25	
B HYDROGEOLOGICAL FEATURES (Highlight or Circle)		
Surface runoff drains toward well, spring or infiltration gallery	15	
C STRUCTURAL FEATURES (Highlight or Circle)		
<u>WELLS</u> (includes wells collecting water from infiltration galleries)		
Uncased or Unsealed (lacking annular seal) Well	40	
Lack of watertight sanitary seal on well cap (including lack of watertight bolt holes, watertight pump support openings, watertight electrical cable openings, etc.)	15	
Well height not properly terminated (well, including the pitless adapter units, does not terminate a minimum of 18 inches above the final ground level, 12 inches above the pump house floor or 3 feet above the highest known flood elevation, whichever is higher. Measurements should be taken from the pump house floor, not the bottom of a pit which may be located within the pump house)	15	
<u>SPRING COLLECTION BOX</u> (includes collection vaults collecting water from infiltration galleries)		
Deep-rooted vegetation (e.g. trees, shrubs) around spring box, providing conduit for surface water into spring water	15	
Spring box is not watertight, with overlapping lid or cover	15	
Overflows or drains open to atmosphere or allow entrance of animals (unscreened)	15	
Marshy (standing water) around spring collection area	30	

ADDITIONAL NOTES

GWUDISW Assessment, Continued (p. 2)
(Second page to be completed by EPA Region VIII)

PWSID #: _____ Date: _____ EPA Assessor: _____

		<u>Index Points</u>	<u>Score*</u>
D	TYPE OF SUBSURFACE WATER SOURCE (Highlight or Circle one)		
	Well, with depth to first screen or perforation equal to or greater than 50 feet	0	
	Well, with depth to first screen or perforation equal to or less than 50 feet	5	
E	HISTORICAL MICROBIOLOGICAL CONTAMINATION (Highlight or Circle)		
	History or suspected outbreak of Giardia or other pathogenic organisms associated with surface water with current system configuration	50	
	Record of Total Coliform (TC+) acute MCL violations over the last 3 years (these violations will be reported as "MCL (TCR), ACUTE)	30	
	Ground Water Rule triggered Source sample(s) over the last 3 years.		
	TC+ in source water: 1 TC+	20	
	2 TC+	25	
	3 TC+	30	
	e. Coli+ in source water	40	
	Regulatory agency verifies complaints about turbidity or suspected waterborne disease	10	
F	HYDROGEOLOGICAL FEATURES (Highlight or Circle)		
	Distance between a surface water source and the groundwater collector (vertical well, spring box or infiltration gallery)		
	Over 200 ft.	0	
	100 – 200 ft.	5	
	Less than 100 ft.	10	
	Well, spring or infiltration gallery located on floodplain at approximate altitude of stream	20	
	Source aquifer that is unconsolidated, cavernous, or fractured	15	

TOTAL SCORE ()**

(*) assign appropriate points even if the issue is not identified as a significant deficiency in the survey report

(**) total score of greater than or equal to 40 indicates further assessment is needed

ADDITIONAL NOTES

PWS Inventory

Entity: SHOSHONE NF BEARTOOTH LAKE PWS WY5680237 Today is 6/16/2017

Contact		PWS Type	NC
Mr. TODD LEGLER		Start and End Dates	7/1 9/30
		Status and Date	A 5/1/1998
Address		Source	GW
203A Yellowstone Avenue		Pop Type Srvd, Count	80
		Service Connections	RS 2
CODY	WY	82414	
307-527-6921		Required Bact	MN
PARK County		Samples	2
E Mail tlebler@fs.fed.us		Comments	Per J. Harris Email, Chg Season on Pop Served.11/02/2016.dr; Per BB, Corrected Pop Served Time Frames.01/14/2014.dr; Per SSR, 8/9/12,

Service Area ID #	Type	Category	Primary Service Area ?
5781	T	RECREATION AREA	Y

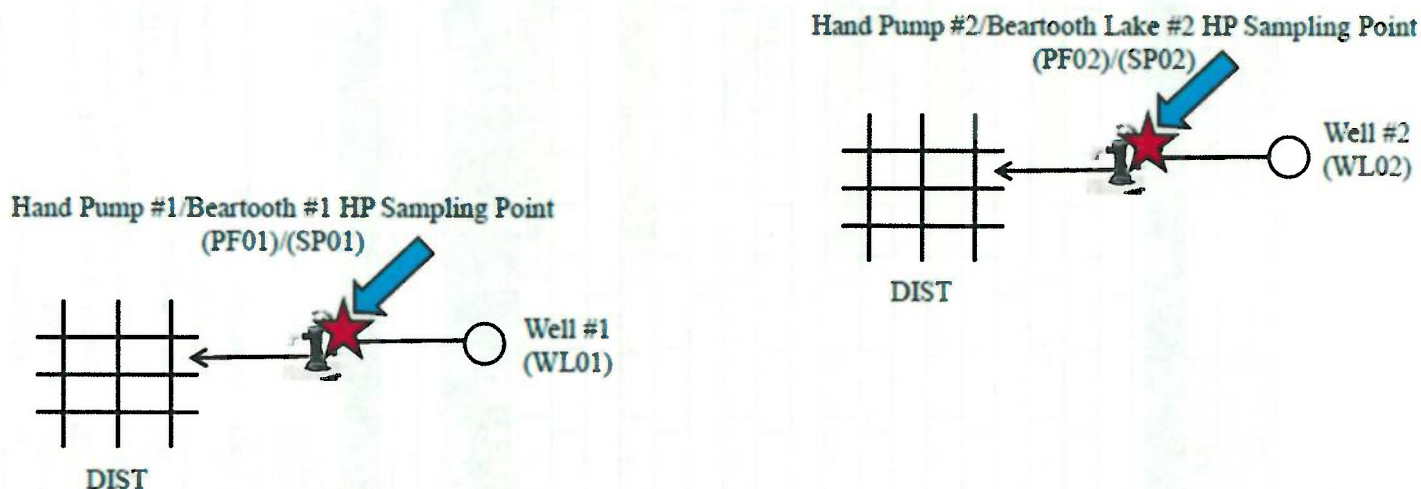
Source ID	Name	Type	Avail	Act	Rea	Rec #
Seller	Longitude	Latitude	T	R	S	Sec / qSec / qqSec / qqqSec
2538324	SHOSHONE NF BEARTOOTH LAKE CG	OT	P	I		*OTOLD
2538325	SHOSHONE NF BEARTOOTH LAKE CG	DS	P	A		DIST
2538957	HAND PUMP #1	PF	P	A		PF01
	-109.5882 44.945177					
2538959	HAND PUMP #2	PF	P	A		PF02
	-109.586131 44.94555					
2538323	WELL #1 Beartooth Campground #1	WL	P	A		WL01
	-109.5882 44.945177					
2538958	WELL #2 Beartooth Campground #2	WL	P	A		WL02

Why are we giving the wells a different name when they listed here? They are the same feature. KCH 7/26/17

Visit ID	Visit Date	Visit Reason	Inspector
1	7/10/2002	Sanitary Survey	OBERHOLTZER, MEL
2	9/4/2007	Sanitary Survey	SCHULTZ, DAVID
3	8/9/2012	Sanitary Survey	KAHLERT, JASON

Shoshone National Forest Beartooth Lake Campground

PWS ID # 5680237
GW/NC



ADDITIONAL NOTES



Sample Points (SP) shown on the schematic are ONLY for Nitrates, RADs, IOC, SOC, and VOC. If you sample for other contaminants, please refer to your individual Site Sampling or Monitoring Plans.

Agreed to by: _____

Date: _____

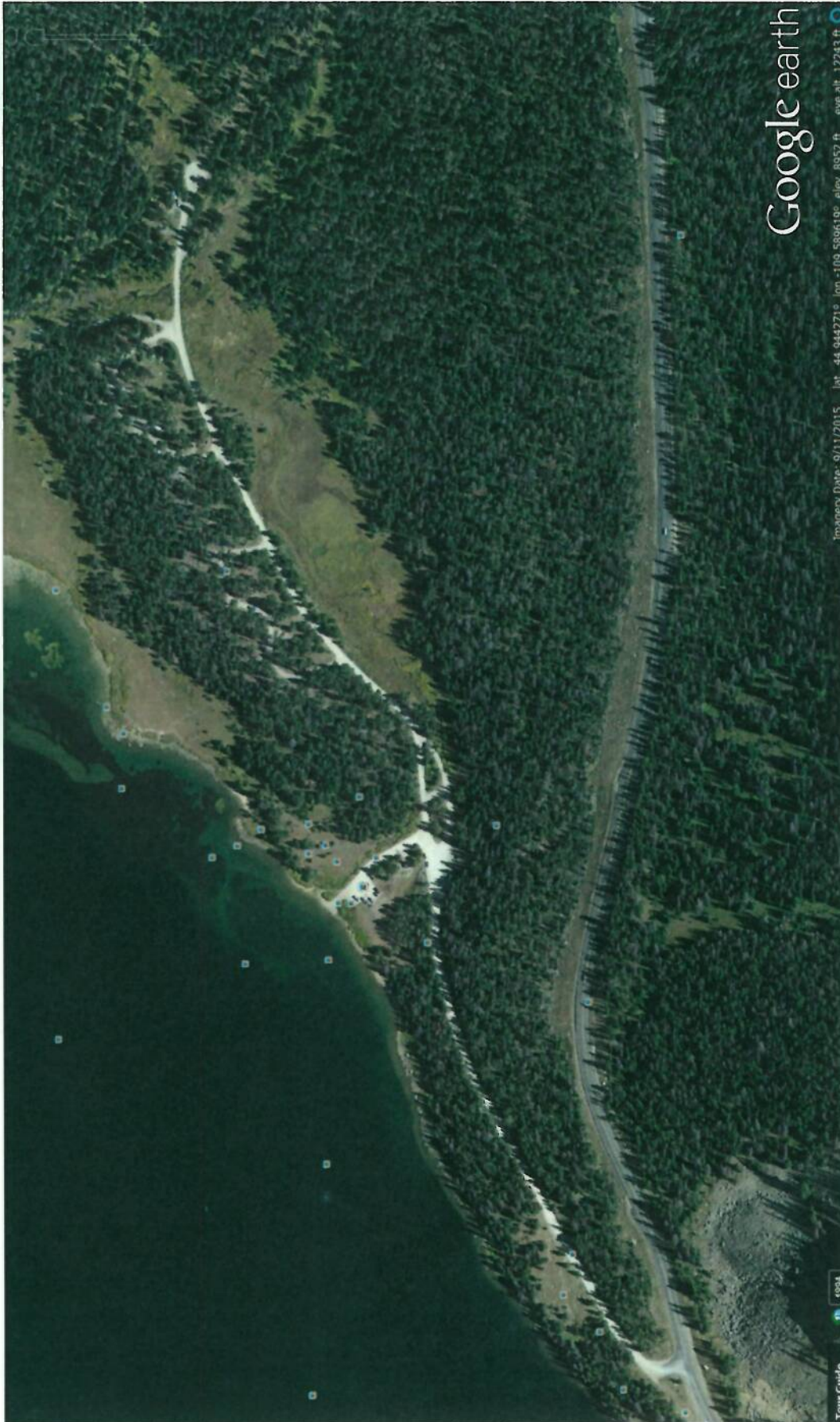
SCHEMATIC NOT TO SCALE

08/04/1999-A. Majewski

12/03/2007-C. Lamb

12/26/2013-D. Roberts

ADDITIONAL NOTES



ADDITIONAL NOTES

Nitrate-Nitrite Analysis									
Entity: SHOSHONE NF BEARTOOTH LAKE CG					PWS: WY5680237				
Inventory Samples									
ID	Date	NO3	NO2	NO3 + NO2	Type	Source	Compl	C	
▶ S1609107-003 N	3/7/2016	Not Tested	Not Tested	0	RT	BEARTOOTH L	Y		
S1507154-004 N	7/8/2015	Not Tested	Not Tested	0	RT	BEARTOOTH #	Y		
S1507154-003 N	7/8/2015	Not Tested	Not Tested	0	RT	BEARTOOTH L	Y		
S1409177-002 N	9/8/2014	Not Tested	Not Tested	0	RT	BEARTOOTH L	Y		
S1409177-003 N	9/8/2014	Not Tested	Not Tested	0	RT	BEARTOOTH #	Y		
S1308386-003 N	8/22/2013	Not Tested	Not Tested	0	RT	BEARTOOTH #	Y		
S1308386-004 N	8/22/2013	Not Tested	Not Tested	0	RT	BEARTOOTH L	Y		
S1208072-002 N	8/2/2012	Not Tested	Not Tested	0	RT	BEARTOOTH L	Y		
S1208072-001 N	8/2/2012	Not Tested	Not Tested	0	RT	BEARTOOTH #	Y		
S1108458-005 N	8/22/2011	Not Tested	Not Tested	0	RT	BEARTOOTH #	Y		
S1108458-006 N	8/22/2011	Not Tested	Not Tested	0	RT	BEARTOOTH L	Y		
S1107451-005 N	7/26/2011	Not Tested	Not Tested	0	RT	BEARTOOTH #	Y		

Record: 14 1 of 39 No Filter Search

Done View Sampling Points

Coliform Sample/Sample Summary List

Menu Items

Water System No.	Lab Sample No.	Collection Date/Mo	For Comp	Type	Sampling Poi	Rjctd S	TC	FC	EC	Intrfr	No. RT Neg.
WY5680237	S1707078-004	07/06/2017	Y	RT	DIST		A		A		
WY5680237	S2+09107-003	09/07/2016	Y	RT	DIST		A		A		
WY5680237	S1608102-002	08/03/2016	Y	RT	DIST		A		A		
WY5680237	S1607214-001	07/13/2016	Y	RT	DIST		A		A		
WY5680237	S1606605-001	06/29/2016	N	RT	DIST		A		A		
WY5680237	S1606605-002	06/29/2016	N	RT	DIST		A		A		
WY5680237	S1507154-004	07/08/2015	Y	RT	DIST		A		A		
WY5680237	S1507154-003	07/08/2015	Y	RT	DIST		A		A		
WY5680237	S1407353-004	07/17/2014	Y	RT	DIST		A		A		
WY5680237	S1407353-003	07/17/2014	Y	RT	DIST		A		A		
WY5680237	S1208072-002	08/02/2012	Y	RT	DIST		A		A		
WY5680237	S1208072-001	08/02/2012	Y	RT	DIST		A		A		
WY5680237	S1207084-002	07/05/2012	Y	RT	DIST		A		A		
WY5680237	S1207084-001	07/05/2012	Y	RT	DIST		A		A		
WY5680237	S1108458-006	08/22/2011	Y	RT	DIST		A		A		
WY5680237	S110458-005	08/22/2011	Y	RT	DIST		A		A		
WY5680237	S1107451-005	07/26/2011	Y	RT	DIST		A		A		
WY5680237	S1107451-004	07/26/2011	Y	RT	DIST		A		A		
WY5680237	S1007405-002	07/27/2010	Y	RT	DIST		A				
WY5680237	S1007405-001	07/27/2010	Y	RT	DIST		A				
WY5680237	9072562	07/14/2009	Y	RT	DIST		A				
WY5680237	9072561	07/14/2009	Y	RT	DIST		A				
WY5680237	604205	09/02/2008	Y	RT	DIST		A				
WY5680237	604204	09/02/2008	Y	RT	DIST		A				
WY5680237	603633	08/12/2008	Y	RT	DIST		A				
WY5680237	603632	08/12/2008	Y	RT	DIST		A				
WY5680237	603022	07/16/2008	Y	RT	DIST		A				
WY5680237	603021	07/16/2008	Y	RT	DIST		A				
WY5680237	602832	07/14/2008	Y	RT	DIST		A				
WY5680237	602831	07/14/2008	Y	RT	DIST		A				
WY5680237	564686	07/10/2007	Y	RT	DIST		A				
WY5680237	594685	07/10/2007	Y	RT	DIST		A				
WY5680237	594052	06/25/2007	Y	RT	DIST		A				
WY5680237	594051	06/25/2007	Y	RT	DIST		A				
WY5680237	593743	06/18/2007	Y	RT	DIST		A				
WY5680237	593742	06/18/2007	Y	RT	DIST		A				
WY5680237	587053	08/14/2006	Y	RT	DIST		A				

Number of rows resulting from the search criteria used:

82

Number of rows displayed:

82

